

# SR300-D1 register list

## (0x0000) Communication settings

| Register name         | Register address | Register type | Register access | Register description   | Enumeration                                     | Default value | Persistent | Unit      |
|-----------------------|------------------|---------------|-----------------|--|---|---------------|------------|-----------|
| device address        | 0x0000           | u16           | RW              | The modbus device address of the instrument. Valid addresses range from 1 to 247. A reboot (hard or soft) is required to apply the settings. | N/A   | 1             | True       | Undefined |
| serial baud rate      | 0x0001           | u16           | RW              | Serial baudrate / 100. Supported baudrates are 9600, 19200, 38400 and 115200. A reboot (hard or soft) is required to apply the settings.     | N/A   | 192           | True       | Undefined |
| serial baud parity    | 0x0002           | u16           | RW              | Parity bit setting for serial communication. A reboot (hard or soft) is required to apply the settings.                                      | 0: no parity<br>1: odd parity<br>2: even parity | 2             | True       | Undefined |
| serial baud stop bits | 0x0003           | u16           | RW              | Number of stop bits for serial communication. A reboot (hard or soft) is required to apply the settings.                                     | 1: one stop bit<br>2: two stop bits             | 1             | True       | Undefined |

# SR300-D1 register list

## (0x0080) Identification

| Register name            | Register address | Register type | Register access | Register description             | Enumeration | Default value | Persistent | Unit      |
|--------------------------|------------------|---------------|-----------------|----------------------------------|-------------|---------------|------------|-----------|
| product model            | 0x0080           | string32      | R-              | Product model string.            | N/A         | N/A           | True       | Undefined |
| product type             | 0x0090           | string32      | R-              | Product type identification.     | N/A         | N/A           | True       | Undefined |
| serial number            | 0x00a0           | string32      | R-              | Serial number of the instrument. | N/A         | N/A           | True       | Undefined |
| firmware version         | 0x00b0           | string32      | R-              | Firmware version.                | N/A         | N/A           | False      | Undefined |
| product version          | 0x00c0           | string32      | R-              | Product version.                 | N/A         | N/A           | False      | Undefined |
| psucom pcb serial number | 0x0100           | string32      | R-              | Serial number of the PSUCOM pcb  | N/A         | N/A           | True       | Undefined |
| mcusns pcb serial number | 0x0110           | string32      | R-              | Serial number of the MCUSNS pcb  | N/A         | N/A           | True       | Undefined |
| adcmcu pcb serial number | 0x0120           | string32      | R-              | Serial number of the ADCMCU pcb  | N/A         | N/A           | True       | Undefined |
| customer serial number   | 0x01a0           | string32      | R-              | Customer serial number.          | N/A         | N/A           | True       | Undefined |

# SR300-D1 register list

## (0x0200) Irradiance

| Register name                      | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit             |
|------------------------------------|------------------|---------------|-----------------|--|-------------|---------------|------------|------------------|
| temperature compensated irradiance | 0x0200           | float         | R-              | The temperature compensated irradiance value (temperature-compensated-thermopile-voltage / sensitivity). | N/A         | N/A           | False      | W/m <sup>2</sup> |
| instrument temperature             | 0x0202           | float         | R-              | The instrument temperature.  | N/A         | N/A           | False      | °C               |
| uncompensated irradiance           | 0x0204           | float         | R-              | The non-temperature compensated irradiance value (thermopile-voltage / sensitivity).                     | N/A         | N/A           | False      | W/m <sup>2</sup> |
| compensated irradiance stats       | 0x0220           | statistic     | R-              | Statistic values for the compensated irradiance signal: min, max, avg, std. Reset accumulation on read.  | N/A         | N/A           | False      | W/m <sup>2</sup> |
| internal temperature stats         | 0x0228           | statistic     | R-              | Statistic values for temperature signal: min, max, avg, std. Reset accumulation on read.                 | N/A         | N/A           | False      | °C               |
| uncompensated irradiance stats     | 0x0230           | statistic     | R-              | Statistic values for uncompensated irradiance signal: min, max, avg, std. Reset accumulation on read.    | N/A         | N/A           | False      | W/m <sup>2</sup> |

# SR300-D1 register list

**(0x0200)      Irradiance**

| Register name                          | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit      |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------|
| temperature compensated irradiance int | 0x0270           | i32           | R-              | The temperature compensated irradiance value (temperature-compensated-thermopile-voltage / sensitivity) in (W/m <sup>2</sup> )/irradiance_scaling_factor. | N/A         | N/A           | False      | Undefined |
| uncompensated irradiance int           | 0x0272           | i32           | R-              | The non-temperature compensated irradiance value (thermopile-voltage / sensitivity), in (W/m <sup>2</sup> )/irradiance_scaling_factor.                    | N/A         | N/A           | False      | Undefined |
| instrument temperature int             | 0x0274           | i16           | R-              | Instrument temperature in °C / scaling_factor_temperature.  | N/A         | N/A           | False      | Undefined |
| scaling factor irradiance              | 0x0275           | u16           | R-              | Scaling factor for irradiance_int registers. Calculated from scaling_exponent_irradiance.   | N/A         | 100           | False      | Undefined |
| scaling factor temperature             | 0x0276           | u16           | R-              | Scaling factor for intrument_temperature_int register. Calculated from scaling_exponent_temperature.  | N/A         | 100           | False      | Undefined |

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## (0x0280) Raw irradiance signals

| Register name                              | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit |
|--|------------------|---------------|-----------------|--|-------------|---------------|------------|------|
| raw adc word                               | 0x0280           | i32           | R-              | Raw ADC word for the channel selected in adc_channel.  | N/A         | N/A           | False      | LSB  |
| temperature compensated thermopile voltage | 0x0285           | float         | R-              | Temperature compensated thermopile voltage (raw ADC word * thermopile-voltage-calibration-factor / (AT^2+BT+C)). | N/A         | N/A           | False      | V    |
| uncompensated thermopile voltage           | 0x0287           | float         | R-              | Thermopile voltage (raw ADC word * thermopile-voltage-calibration-factor), in V.                                 | N/A         | N/A           | False      | V    |

# SR300-D1 register list

**(0x0300)                    Irradiance calibration**

| Register name                         | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit                  |
|---------------------------------------|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------------------|
| irradiance sensitivity                | 0x0300           | float         | RW              | Instrument irradiance sensitivity (S), in V/(W/m <sup>2</sup> ), only persistent after the store_irradiance_calibration boolean is set.  | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date           | 0x0302           | u64           | RW              | Calibration date, as u64 timestamp, only persistent after the store_irradiance_calibration boolean is set. Decimal formatting: yyyyymmss. Example: 18-03-2022 16:25 would be stored as 20220318 (time part is not stored). | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability   | 0x0306           | u16           | RW              | Irradiance calibration traceability register, usage not determined as of yet 0: WRR (1977).  | N/A         | N/A           | True       | Undefined             |
| thermopile voltage calibration factor | 0x030a           | float         | R-              | Thermopile voltage calibration factor in V / LSB.  | N/A         | N/A           | True       | V/LSB                 |
| irradiance temperature compensation a | 0x030c           | float         | R-              | Temperature compensation polynomial coefficient A (quadratic term).  | N/A         | N/A           | True       | 1/(°C) <sup>2</sup>   |
| irradiance temperature compensation b | 0x030e           | float         | R-              | Temperature compensation polynomial coefficient B (linear term).   | N/A         | N/A           | True       | 1/(°C)                |

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**(0x0300)              Irradiance calibration**

| Register name                                 | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit                  |
|---|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------------------|
| irradiance temperature compensation c         | 0x0310           | float         | R-              | Temperature compensation polynomial coefficient C (offset term).   | N/A         | N/A           | True       | Undefined             |
| store irradiance calibration                  | 0x0320           | bool          | RW              | When True is written to this register, the irradiance_sensitivity, irradiance_calibration_date and irradiance traceability registers are stored persistently. Will always read back as False. Note: This is a slow operation, and can take up to a second. | N/A         | N/A           | False      | Undefined             |
| irradiance sensitivity history 1              | 0x0340           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration_register is set.  | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 1         | 0x0342           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration_register is set.  | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 1 | 0x0346           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration_register is set.  | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                 | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|---|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 2              | 0x034a           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 2         | 0x034c           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 2 | 0x0350           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 3              | 0x0354           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 3         | 0x0356           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 3 | 0x035a           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                 | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|---|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 4              | 0x035e           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 4         | 0x0360           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 4 | 0x0364           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 5              | 0x0368           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 5         | 0x036a           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 5 | 0x036e           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                 | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|---|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 6              | 0x0372           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 6         | 0x0374           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 6 | 0x0378           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 7              | 0x037c           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 7         | 0x037e           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 7 | 0x0382           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                 | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|---|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 8              | 0x0386           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 8         | 0x0388           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 8 | 0x038c           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 9              | 0x0390           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 9         | 0x0392           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 9 | 0x0396           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 10              | 0x039a           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 10         | 0x039c           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 10 | 0x03a0           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 11              | 0x03a4           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 11         | 0x03a6           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 11 | 0x03aa           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 12              | 0x03ae           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 12         | 0x03b0           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 12 | 0x03b4           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 13              | 0x03b8           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 13         | 0x03ba           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 13 | 0x03be           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 14              | 0x03c2           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 14         | 0x03c4           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 14 | 0x03c8           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 15              | 0x03cc           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 15         | 0x03ce           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 15 | 0x03d2           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 16              | 0x03d6           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 16         | 0x03d8           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 16 | 0x03dc           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 17              | 0x03e0           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 17         | 0x03e2           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 17 | 0x03e6           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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## (0x0300) Irradiance calibration

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 18              | 0x03ea           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 18         | 0x03ec           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 18 | 0x03f0           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 19              | 0x03f4           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 19         | 0x03f6           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 19 | 0x03fa           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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**(0x0300)                    Irradiance calibration**

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 20              | 0x03fe           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 20         | 0x0400           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 20 | 0x0404           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 21              | 0x0408           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 21         | 0x040a           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 21 | 0x040e           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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**(0x0300)                    Irradiance calibration**

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 22              | 0x0412           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 22         | 0x0414           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 22 | 0x0418           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 23              | 0x041c           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 23         | 0x041e           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 23 | 0x0422           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

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**(0x0300)              Irradiance calibration**

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 24              | 0x0426           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 24         | 0x0428           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 24 | 0x042c           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 25              | 0x0430           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 25         | 0x0432           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 25 | 0x0436           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

# SR300-D1 register list

**(0x0300)              Irradiance calibration**

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 26              | 0x043a           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 26         | 0x043c           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 26 | 0x0440           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 27              | 0x0444           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 27         | 0x0446           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 27 | 0x044a           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

# SR300-D1 register list

## (0x0300) Irradiance calibration

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 28              | 0x044e           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 28         | 0x0450           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 28 | 0x0454           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 29              | 0x0458           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 29         | 0x045a           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 29 | 0x045e           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

# SR300-D1 register list

**(0x0300)              Irradiance calibration**

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 30              | 0x0462           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 30         | 0x0464           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 30 | 0x0468           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance sensitivity history 31              | 0x046c           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 31         | 0x046e           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 31 | 0x0472           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

# SR300-D1 register list

**(0x0300)                    Irradiance calibration**

| Register name                                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit                  |
|--|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------------------|
| irradiance sensitivity history 32              | 0x0476           | float         | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | V/(W/m <sup>2</sup> ) |
| irradiance calibration date history 32         | 0x0478           | u64           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |
| irradiance calibration traceability history 32 | 0x047c           | u16           | R-              | Read only. Automatically updated when store_irradiance_calibration register is set. | N/A         | N/A           | True       | Undefined             |

# SR300-D1 register list

## (0x0480) Thermopile resistance

| Register name                              | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit      |
|--|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------|
| thermopile resistance                      | 0x0480           | float         | R-              | Thermopile resistance in $\Omega$ .  | N/A         | N/A           | True       | $\Omega$  |
| determine thermopile resistance            | 0x0482           | bool          | RW              | Triggers a thermopile resistance measurement and updates the result in the thermopile_resistance register. | N/A         | N/A           | False      | Undefined |
| thermopile shunt resistor value            | 0x0483           | float         | R-              | Value of thermopile shunt sensing resistor used to compute the thermopile resistance.                      | N/A         | N/A           | True       | $\Omega$  |
| thermopile current sensing resistor value  | 0x0485           | float         | R-              | Value of thermopile current sensing resistor used to determine the thermopile resistance, in $\Omega$ .    | N/A         | 499           | True       | $\Omega$  |
| determine thermopile resistance at startup | 0x0487           | bool          | RW              | Enable the thermopile resistance measurement at startup.   | N/A         | False         | True       | Undefined |

# SR300-D1 register list

**(0x0500) Fan**

| Register name           | Register address | Register type | Register access | Register description   | Enumeration  | Default value | Persistent | Unit      |
|-------------------------|------------------|---------------|-----------------|--|--|---------------|------------|-----------|
| fan state               | 0x0500           | u16           | RW              | The current state of the internal ventilation.   | 0: disabled<br>1: enabled<br>2: starting<br>3: error | 1             | True       | Undefined |
| fan current             | 0x0501           | i16           | R-              | Fan current in mA.   | N/A  | N/A           | False      | mA        |
| fan speed               | 0x0502           | i16           | R-              | Fan speed in RPM.  | N/A  | N/A           | False      | RPM       |
| fan current lower limit | 0x0503           | i16           | R-              | Fan current lower limit in mA.<br>The current limit below which the fan under current indicator flag is set. | N/A  | 30            | True       | mA        |
| fan current upper limit | 0x0504           | i16           | R-              | Fan current upper limit in mA.<br>The current limit above which the fan over current indicator flag is set.  | N/A  | 140           | True       | mA        |
| fan speed lower limit   | 0x0505           | i16           | R-              | Fan speed lower limit in RPM.<br>The fan speed limit below which the fan under speed indicator flag is set.  | N/A  | 100           | True       | RPM       |
| fan under current       | 0x0506           | bool          | R-              | Fan under-current indicator.   | N/A  | N/A           | False      | Undefined |
| fan over current        | 0x0507           | bool          | R-              | Fan over-current indicator.  | N/A  | N/A           | False      | Undefined |

# SR300-D1 register list

**(0x0580) Heater**

| Register name              | Register address | Register type | Register access | Register description  | Enumeration                           | Default value | Persistent | Unit      |
|----------------------------|------------------|---------------|-----------------|---|---------------------------------------|---------------|------------|-----------|
| heater state               | 0x0580           | u16           | RW              | The current state of the internal heating.  | 0: disabled<br>1: enabled<br>3: error | 1             | True       | Undefined |
| heater duty cycle          | 0x0581           | u16           | RW              | Heater duty cycle percentage for heater power control. Values will be rounded to a multiple of 10 (i.e. duty cycle is settable in steps of 10%). Values lower than 10 will always be rounded upwards (i.e. a duty cycle of 0% is not possible). | N/A                                   | 100           | True       | %         |
| heater current             | 0x0582           | i16           | R-              | Heater current in mA.   | N/A                                   | N/A           | False      | mA        |
| heater current lower limit | 0x0583           | i16           | R-              | Heater current lower limit in mA. The heater current below which the heater under current indicator flag is set.  | N/A                                   | 200           | True       | mA        |
| heater current upper limit | 0x0584           | i16           | R-              | Heater current upper limit in mA. The heater current above which the heater over current indicator flag is set.   | N/A                                   | 500           | True       | mA        |
| heater under current       | 0x0585           | bool          | R-              | Heater under-current indicator.   | N/A                                   | N/A           | False      | Undefined |
| heater over current        | 0x0586           | bool          | R-              | Heater over-current indicator.  | N/A                                   | N/A           | False      | Undefined |

# SR300-D1 register list

## (0x0600) Accelerometer

| Register name                           | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit      |
|---|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------|
| tilt                                    | 0x0600           | float         | R-              | Tilt in the z-axis in °, calculates as: $\arctan2(\sqrt{x^2+y^2},z)$ .                           | N/A         | N/A           | False      | °         |
| rotation                                | 0x0602           | float         | R-              | Rotation around the z-axis, in °. 0 ° means that the connector is facing downwards.              | N/A         | N/A           | False      | °         |
| accelerometer x raw                     | 0x0604           | float         | R-              | Raw accelerometer x value, in counts.  | N/A         | N/A           | False      | Undefined |
| accelerometer y raw                     | 0x0606           | float         | R-              | Raw accelerometer y value, in counts.  | N/A         | N/A           | False      | Undefined |
| accelerometer z raw                     | 0x0608           | float         | R-              | Raw accelerometer z value, in counts.  | N/A         | N/A           | False      | Undefined |
| accelerometer x compensated             | 0x0616           | float         | R-              | Fully corrected and compensated accelerometer x value, units of g.                               | N/A         | N/A           | False      | g         |
| accelerometer y compensated             | 0x0618           | float         | R-              | Fully corrected and compensated accelerometer y value, units of g.                               | N/A         | N/A           | False      | g         |
| accelerometer z compensated             | 0x061a           | float         | R-              | Fully corrected and compensated accelerometer z value, units of g.                               | N/A         | N/A           | False      | g         |
| accelerometer temperature coefficient x | 0x061c           | float         | R-              | Linear temperature correction coefficient for the offset of the accelerometer x values, in 1/°C. | N/A         | N/A           | True       | 1/(°C)    |

# SR300-D1 register list

## (0x0600) Accelerometer

| Register name                           | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit    |
|---|------------------|---------------|-----------------|--|-------------|---------------|------------|---------|
| accelerometer temperature coefficient y | 0x061e           | float         | R-              | Linear temperature correction coefficient for the offset of the accelerometer y values, in 1/°C.         | N/A         | N/A           | True       | 1/(°C)  |
| accelerometer temperature coefficient z | 0x0620           | float         | R-              | Linear temperature correction coefficient for the offset of the accelerometer z values, in 1/°C.         | N/A         | N/A           | True       | 1/(°C)  |
| accelerometer reference temperature     | 0x0622           | float         | R-              | Reference temperature to use for the temperature correction, in °C.                                      | N/A         | N/A           | True       | °C      |
| accelerometer offset x                  | 0x0624           | float         | R-              | Offset correction for accelerometer x values, to be applied after temperature correction, in units of g. | N/A         | N/A           | True       | g       |
| accelerometer offset y                  | 0x0626           | float         | R-              | Offset correction for accelerometer y values, to be applied after temperature correction, in units of g. | N/A         | N/A           | True       | g       |
| accelerometer offset z                  | 0x0628           | float         | R-              | Offset correction for accelerometer z values, to be applied after temperature correction, in units of g. | N/A         | N/A           | True       | g       |
| accelerometer gain x                    | 0x062a           | float         | R-              | Gain factor for accelerometer x values, to be applied after temperature correction, in g / count.        | N/A         | N/A           | True       | g/count |

# SR300-D1 register list

## (0x0600) Accelerometer

| Register name           | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit      |
|-------------------------|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------|
| accelerometer gain y    | 0x062c           | float         | R-              | Gain factor for accelerometer y values, to be applied after temperature correction, in g / count. | N/A         | N/A           | True       | g/count   |
| accelerometer gain z    | 0x062e           | float         | R-              | Gain factor for accelerometer z values, to be applied after temperature correction, in g / count. | N/A         | N/A           | True       | g/count   |
| accelerometer matrix xx | 0x0630           | float         | R-              | xx-component of the gain correction matrix for accelerometer.                                     | N/A         | N/A           | True       | Undefined |
| accelerometer matrix xy | 0x0632           | float         | R-              | xy component of the gain correction matrix for accelerometer.                                     | N/A         | N/A           | True       | Undefined |
| accelerometer matrix xz | 0x0634           | float         | R-              | xz component of the gain correction matrix for accelerometer.                                     | N/A         | N/A           | True       | Undefined |
| accelerometer matrix yx | 0x0636           | float         | R-              | yx component of the gain correction matrix for accelerometer.                                     | N/A         | N/A           | True       | Undefined |
| accelerometer matrix yy | 0x0638           | float         | R-              | yy component of the gain correction matrix for accelerometer.                                     | N/A         | N/A           | True       | Undefined |
| accelerometer matrix yz | 0x063a           | float         | R-              | yz component of the gain correction matrix for accelerometer.                                     | N/A         | N/A           | True       | Undefined |

# SR300-D1 register list

## (0x0600) Accelerometer

| Register name            | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit      |
|--------------------------|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------|
| accelerometer matrix zx  | 0x063c           | float         | R-              | zx component of the gain correction matrix for accelerometer.  | N/A         | N/A           | True       | Undefined |
| accelerometer matrix zy  | 0x063e           | float         | R-              | zy component of the gain correction matrix for accelerometer.  | N/A         | N/A           | True       | Undefined |
| accelerometer matrix zz  | 0x0640           | float         | R-              | zz component of the gain correction matrix for accelerometer.  | N/A         | N/A           | True       | Undefined |
| tilt reference           | 0x0644           | float         | RW              | Tilt indicator reference value in °.   | N/A         | 0.0           | False      | °         |
| rotation reference       | 0x0646           | float         | RW              | Rotation indicator reference value in °.   | N/A         | 0.0           | False      | °         |
| tilt reference range     | 0x0648           | float         | RW              | Tilt indicator range value in °. The indicator is disabled when the range is set to 0.0.   | N/A         | 0.0           | False      | °         |
| rotation reference range | 0x064a           | float         | RW              | Rotation indicator range value in °. The indicator is disabled when the range is set to 0.0.   | N/A         | 0.0           | False      | °         |
| tilt indicator           | 0x064c           | bool          | R-              | Tilt indicator is set to False when the tilt is not more than the value in tilt_indicator_range away from the value in tilt_reference and is True otherwise. | N/A         | N/A           | False      | Undefined |

# SR300-D1 register list

## (0x0600) Accelerometer

| Register name      | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit      |
|--------------------|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------|
| rotation indicator | 0x064d           | bool          | R-              | Rotation indicator is set to False when the rotation is not more than the value in rotation_indicator_range away from the value in rotation_reference and is True otherwise. | N/A         | N/A           | False      | Undefined |
| tilt stats         | 0x0660           | statistic     | R-              | Statistic values for tilt signal: min, max, avg, std. Reset accumulation on read.  | N/A         | N/A           | False      | °         |
| rotation stats     | 0x0668           | statistic     | R-              | Statistic values for rotation signal: min, max, avg, std. Reset accumulation on read.  | N/A         | N/A           | False      | °         |

# SR300-D1 register list

## (0x0680) Internal humidity

| Register name                    | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit      |
|----------------------------------|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------|
| internal relative humidity       | 0x0680           | float         | R-              | The internal relative humidity in %.   | N/A         | N/A           | False      | %         |
| internal high humidity threshold | 0x0684           | u16           | RW              | High internal relative humidity threshold in %. The threshold above which the high humidity indicator flag is set. | N/A         | 40            | True       | %         |
| internal high humidity indicator | 0x0685           | bool          | R-              | High internal humidity indicator.  | N/A         | N/A           | False      | Undefined |
| internal relative humidity stats | 0x06e0           | statistic     | R-              | Statistic values for internal relative humidity signal: min, max, avg, std. Reset accumulation on read.            | N/A         | N/A           | False      | %         |

# SR300-D1 register list

## (0x0700) Internal pressure

| Register name                  | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit  |
|--------------------------------|------------------|---------------|-----------------|---|-------------|---------------|------------|-------|
| internal pressure              | 0x0700           | float         | R-              | Interior air pressure, in hPa.  | N/A         | N/A           | False      | hPa   |
| leak detection                 | 0x0710           | float         | R-              | Ratio of the pressure and the temperature in hPa/K. This signal is approximately constant when no leak is present.  | N/A         | N/A           | False      | hPa/K |
| leak detection reference       | 0x0712           | float         | RW              | Reference value of the pressure and temperature ratio in hPa/K. The value of the pressure-and-temperature-ratio in the leak_detection register is compared to this value to determine if that value is constant. If this value is set to zero, the leak detection system is disabled. | N/A         | N/A           | True       | hPa/K |
| leak detection reference range | 0x0714           | float         | RW              | The maximum allowed deviation of the pressure-and-temperature-ratio in the leak_detection register from the reference pressure-and-temperature-ratio in the leak_detection_reference register in percent.   | N/A         | 5.0           | True       | %     |

# SR300-D1 register list

**(0x0700) Internal pressure**

| Register name           | Register address | Register type | Register access | Register description   | Enumeration   | Default value | Persistent | Unit      |
|-------------------------|------------------|---------------|-----------------|--|---|---------------|------------|-----------|
| leak indication         | 0x0716           | u16           | R-              | Leak indication.   | 0: leak detection disabled<br>1: leak detected<br>2: no leak detected | N/A           | False      | Undefined |
| internal pressure stats | 0x0760           | statistic     | R-              | Statistic values for internal pressure signal: min, max, avg, std. Reset accumulation on read. | N/A   | N/A           | False      | hPa       |

# SR300-D1 register list

**(0x0780)**      **Led**

| Register name | Register address | Register type | Register access | Register description   | Enumeration   | Default value | Persistent | Unit      |
|---------------|------------------|---------------|-----------------|--|---|---------------|------------|-----------|
| led mode      | 0x0780           | u16           | RW              | The LED mode register controls the behaviour of the status LED. LED modes are: off, on, auto (blinking once, twice or three times every 15 s depending on power and communication status), identification (LED switches on for some time, before returning to previous LED mode) or maintenance (LED blinks rapidly when instrument is in maintenance mode). | 0: Off<br>1: On<br>2: Auto<br>3: Identify<br>4: Maintenance | 2             | False      | Undefined |

# SR300-D1 register list

**(0x0800) Recirculating ventilation heating**

| Register name | Register address | Register type | Register access | Register description   | Enumeration  | Default value | Persistent | Unit      |
|---------------|------------------|---------------|-----------------|--|--|---------------|------------|-----------|
| rvh mode      | 0x0800           | u16           | RW              | The current RVH mode. This register indirectly controls the internal heating and ventilation. The modes are: 1. Dew and frost mitigation mode: in which the fan and the heater are both switched on. 2: High accuracy mode: in which the fan is switched on and the heater is switched off. 3: Power saving mode: in which the fan and heater are both switched off. 4: Invalid (read-only): when the fan is switched off and the heater is switched on. 5: Error (read-only): when either the heater or the fan encountered an error. | 1: dew and frost mitigation mode<br>2: high accuracy mode<br>3: power saving mode<br>4: invalid mode<br>5: error | 1             | True       | Undefined |

## SR300-D1 register list

**(0x0880) Status**

| Register name   | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit      |
|-----------------|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------|
| device status 1 | 0x0880           | u16           | R-              | Device status register 1: bit 15 - bit 9: TBD, bit 8: default settings mode, bit 7: maintenance mode, bit 6: leak indication, bit 5: heater over_current, bit 4: heater under_current, bit 3: fan speed low, bit 2: fan over_current, bit 1: fan under_current, bit 0: relative humidity $\geq 40\%$ | N/A         | N/A           | False      | Undefined |

# SR300-D1 register list

**(0x0880) Status**

| Register name         | Register address | Register type | Register access | Register description   | Enumeration | Default value | Persistent | Unit      |
|-----------------------|------------------|---------------|-----------------|--|-------------|---------------|------------|-----------|
| device status 2       | 0x0881           | u16           | R-              | Device status register 2: bit 15: future use, bit 14: future use, bit 13: future use, bit 12: future use, bit 11: future use, bit 10: future use, bit 9: relative humidity high, bit 8: humidity sensor communication error, bit 7: temperature sensor communication error, bit 6: ADC communication error, bit 5: thermopile resistance out of bounds, bit 4: calibration history full, bit 3: calibration history cleared, bit 2: calibration successful, bit 1: future use, bit 0: new data (irr + temp) available. | N/A         | N/A           | False      | Undefined |
| uptime counter        | 0x08a0           | u32           | R-              | Uptime counter that starts counting every second after device boot.  | N/A         | N/A           | False      | Undefined |
| mcusns assert counter | 0x08a2           | u32           | R-              | The amount of times an assert has failed on the MCUSNS. Writing 0 to the register will reset the value.  | N/A         | N/A           | True       | Undefined |

# SR300-D1 register list

**(0x0880) Status**

| Register name         | Register address | Register type | Register access | Register description  | Enumeration | Default value | Persistent | Unit      |
|-----------------------|------------------|---------------|-----------------|---|-------------|---------------|------------|-----------|
| adcmcu assert counter | 0x08a4           | u32           | R-              | The amount of times an assert has failed on the ADCMCU. Writing 0 to the register will reset the value. | N/A         | N/A           | True       | Undefined |

# SR300-D1 register list

## (0x0900) Maintenance

| Register name    | Register address | Register type | Register access | Register description  | Enumeration                                      | Default value | Persistent | Unit      |
|------------------|------------------|---------------|-----------------|---|--|---------------|------------|-----------|
| maintenance mode | 0x0900           | u16           | RW              | Maintenance mode switch.<br>Intended for factory use only.<br>Will always read as 0x0000 when not active.   | N/A  | N/A           | False      | Undefined |
| soft reboot      | 0x0901           | u16           | RW              | Soft restart when the special value 0x587f is written. Restart into bootloader for firmware upgrade when special value 0xa54c is written. All other values will be ignored. | 22655: soft restart<br>42316: bootloader restart | N/A           | False      | Undefined |