# ATyS C55

## ATS Controller

## mid-level functionalities

new


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*ATyS C55*

### The solution for

- Commercial buildings
- Genset/Genset applications
- External/portable systems

### Strong points

- Smart commissioning
- Intuitive use
- Hi-resolution LCD screen

### Conformity to standards

- IEC 61010-2-201
- IEC 60947-6-1
- GB/T 14048.11 Annex C

### Communication gateways

*DIRIS Digiware M-70 & D-70*

## Function

**ATyS C55** is a complete ATSE controller that can be used to pilot a remotely operated transfer switch of any technology: motorised switches (e.g. ATyS r, ATyS S or ATyS d M), circuit breakers or contactors. ATyS C55 ensure the automatic or remotely controlled transfer from one source to another, with configurable timers and thresholds, for any combination of sources: 2 transformers, 1 transformer and 1 genset or 2 gensets.

## Advantages

**Fast commissioning**

On initial power up, the ATyS C55's smart wizard will guide the operator through the commissioning process.

**Versatile**

The ATyS C55 is compatible with contactors, breakers and switches. It can also work for all type of 2-source applications combining mains and gensets.

**Clear visualisation and operation**

- High-resolution LCD screen with clear defined messages.
- Real-time pop-ups to show timers, alarms, faults and information alerts.
- Quick and easy access to main functions through the front face with direct key input.
- Complete configuration can be achieved through the front face or via software (EasyConfig).

## General characteristics

- Self-powered from sensing.
- Wide voltage range (88-576VAC).
- 24 VDC aux power supply (for optional use).
- 2 latching relays.
- Smart commissioning wizard.
- IP65 degree of protection with gasket (accessory).
- 1000 Alarms and Events.
- 6 fully configurable I/O.
- Genset scheduler.
- Door or back plate mounting.
- Main/Main, Main/Genset and Genset/Genset applications.
- Easyconfig configuration software.
- RS485 Modbus communication.
- Ethernet, SNMP, BACnet using DIRIS M-70 gateways. Includes Webserver.
- A DIRIS Digiware D-70 gateway can be utilised as a remote display for multiple ATyS C55/C65 controllers; the D-70 also provides Ethernet, SNMP & BACnet connectivity.

## References

| Description | Reference |
|---|---|
| ATyS C55 – ATS controller (includes mounting kits) | 1600 **0055** |
| IP65 gasket for door cut-out (1) | 1609 **0001** |
| DIRIS Digiware M-50 multi-protocol Ethernet gateway | 4829 **0221** |
| DIRIS Digiware D-50 multipoint display, Ethernet output | 4829 **0204** |
| DIRIS Digiware M-70 communication gateway for Ethernet & Webserver | 4829 **0222** |
| DIRIS Digiware D-70 communication gateway for Ethernet & Webserver and multi-product display | 4829 **0203** |

*(1) The gasket provides an IP65 seal between the controller and the panel door; the front face (display & keys) is IP65 as standard.*



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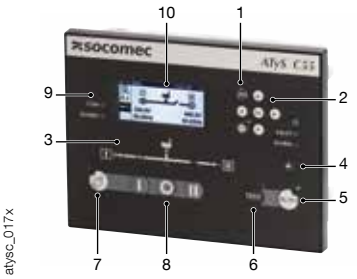
## Front panel

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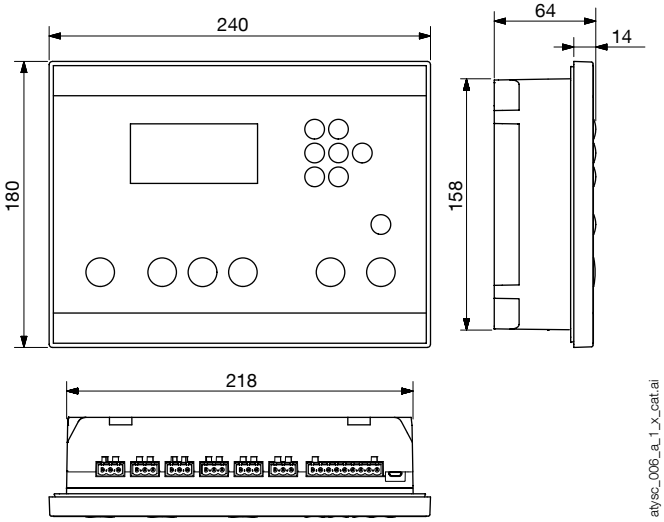
1. Dashboard displays.
2. Navigation keypad.
3. Mimic LED indication.
4. Lamp test button / LED info.
5. AUTO mode select.
6. TEST button.
7. CONTROL mode select.
8. Position orders (only in CONTROL mode).
9. Inhibit and communication indication.
10. Hi-res LCD screen.

## Dimensions (mm)

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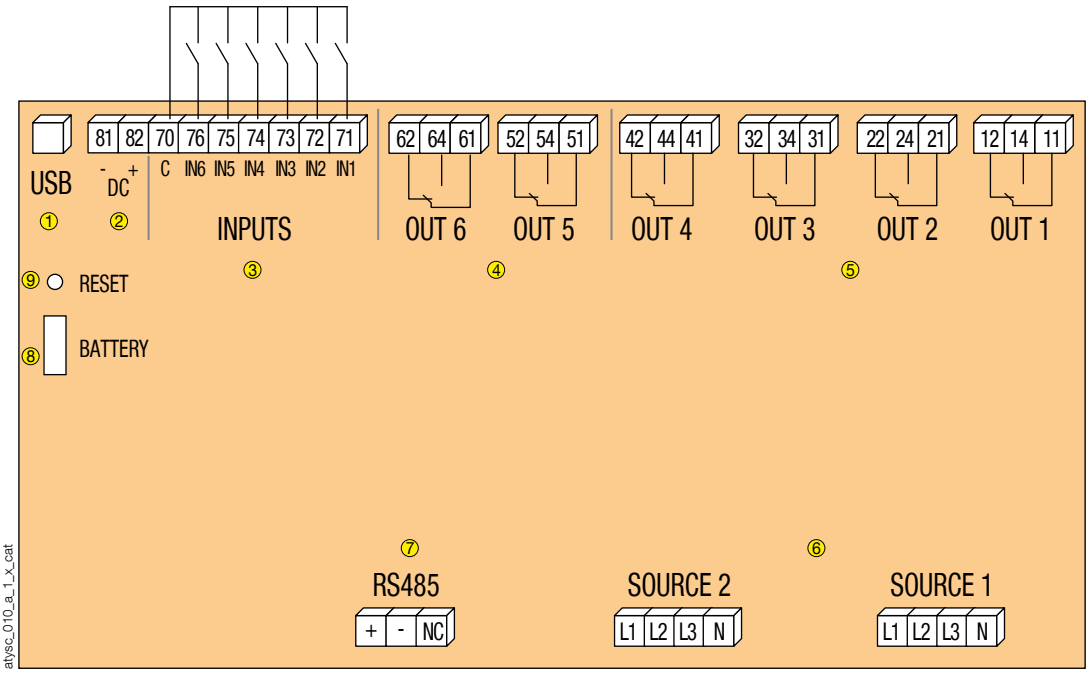
## Characteristics

| Electrical characteristics | |
|---|---|
| AC operating limits | 110 - 480 VAC ±20% |
| Optional DC supply | 24 VDC |
| Frequency limits | 45 - 65 Hz |
| Power consumption | < 10 W |
| Inputs | 6, fully programmable |
| Outputs | 6, fully programmable |
| Output relays | 8 A AC15 |
| EMC classification | Class A and B |
| Impulse withstand | 8/6 kV (1) |
| Overvoltage category | CAT 3 |

*(1) 8 kV tested between phases of a different source and 6 kV tested between phases of a the same source.*

| Mechanical characteristics | |
|---|---|
| Weight | 1080 gr |
| Door cutout | 220 x 160 mm |
| Protection degree | IP65 with optional gasket |
| Operating temperature | -30 … +70 °C |
| **Communications** | |
| Interface type | RS485. 2 to 3 half duplex wires |
| Protocol | MODBUS RTU |
| Baudrate | programmable 1200 - 115200 bps |
| **Display** | |
| Screen resolution | 350 x 160 pixels |
| Event recorder | 1000 events |

## Terminals

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1. Configuration USB
2. 24 VDC aux power supply (for optional use)
3. 6 x inputs
4. 2 x latching relay outputs
5. 4 x relay outputs
6. Source sensing (110-480 ±20%)
7. RS485 communication
8. Replaceable RTC battery
9. Hard reset button