General **Specifications**

Model YS110 Standby Manual Station

GS 01B08G01-01E

Overview

If a YS1360, YS1500, or YS1700 instruments fails, the YS110 Standby Manual Station can be used to output a 4 to 20 mA signal to the control valve actuator instead of the instruments. This standby manual station can be connected to YS1360, YS1500, or YS1700 instruments by swinging up the front display, then the instrument can be exchanged (the output is back up by the YS110), YS110 is battery operated; it can also be plugged into the instrument case and operated off the system power supply.

■ STANDARD SPECIFICATION

1. Input/MV Signals Specification

: 1 to 5 V DC, 1 point Input signal

Input resistance : 1 MΩ

MV output signal : 4 to 20 mA DC, 1 point

Load resistance : 0 to 750 Ω

Input/MV indicator : Indicator Moving coil type

Range : 0 to 100 % : 20 equal divisions Scale

MV operation : Manual operation by operation

wheel (on the front panel)

I/O Connection: Connected to connector on the controller case by supplied cable

Controller for backed up: YS1360, YS1500, YS1700

2. Power Supply Specification

2.1 Internal Power Supply

Continued operation with the internal batteries: 1 hour (with new batteries max.)

Battery: 6F22 or 6LF22 (IEC Type), 9V dry sell, three required

Battery check: provided

Push the battery check switch to display the remaining life of the internal battery. If the indicator indicates more than 75% of span, you can continue using this battery.

2.2 External Power Supply

When installed in the YS1360, YS1500, or YS1700 case, power is supplied via the connector in the back of the instruments, and the internal battery is discon-

Rated Power Supply Voltage: For both DC and AC 100 V version;

DC drive; 24-120 V DC (±10%), no polarity AC drive; 100-120 V AC (±10%), 50/60 Hz (±3Hz) 220 V version;

DC drive; 135-190 V DC (±10%), no polarity AC drive; 220-240 V AC (±10%), 50/60 Hz (±3Hz) On the other hand, the instruments themselves have the ability to operate under the condition as shown

below which is the same as the former description of

the power supply voltage.



Usable Power Supply Voltage: For both DC and AC

100 V version;

DC drive; 20-130 V DC, no polarity AC drive; 80-138 V AC, 47-63 Hz

220 V version:

DC drive; 120-340 V DC, no polarity AC drive; 138-264 V AC, 47-63 Hz

3. Dimensions, Mounting

Portable (can be installed in YS1500 or YS1700

case)

Signal cable length: 2 m

External dimensions: 144 x 58 x 295 (mm)

Weight: 1.6 kg

4. Design Performance

Accuracy rating for signals (input/output): 2.5%

Maximum power and current consumption

Power Supply	Range	Max.	Тур.
100V version	20 to 130V DC	190mA	130mA
100 v version	80 to 138V DC	14VA	8.4VA
220V version	120 to 340V DC	30mA	13mA
220V Version	138 to 264V DC	14VA	10VA

Isolation Resistance

Between I/O terminals and ground: 100MΩ/500V DC Between Power terminal and ground: 100MΩ/500V DC Withstanding Voltage

Between I/O terminals and ground: 500V AC for 1 minite Between Power terminal and ground:

100V AC version: 1000V AC for 1minute 220V AC version: 1500V AC for 1minute

5. Normal Operating Condition

Ambient Temperature: 0 to 50 °C

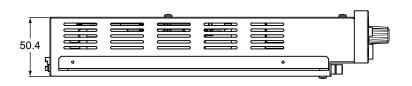
Ambient Humidity: 5 to 90 %RH (non-condensing)



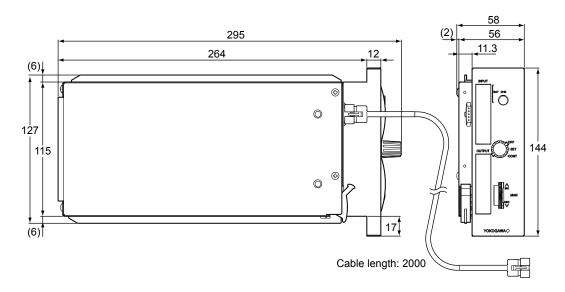
6. Model and Suffix codes

Model	Code		•	Option	Description
YS110					Standby Manual Station
	-0				Standard
		0			Always 0
Power Supply 1		1		100V version	
			2		220V version

■ EXTERNAL DIMENSIONS



Unit: mm



Weight: 1.6 kg

■ TERMINAL CONNECTIONS FOR YS110

The operating terminals on YS110, and corresponding signal name (for each controller mode):

Terminals	Signal's name	Controller mode
1, 2	Analog input	Programmable mode
	PV	Single-loop mode, YS1360
	PV1	Other mode
22, 23	Analog input 1	Programmable mode
	MV1	Other mode, YS1360

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■ RELATED INSTRUMENTS

YS1360 Auto/Manula station for MV setting YS1500 Single-loop Multifunction Controller YS1700 Single-loop Programmable Controller

■ Items to Specify when Ordering Clearly state the model and suffix code.

■ ACCESSORIES
Tag plate seals: 4 sheets

Subject to change without notice.