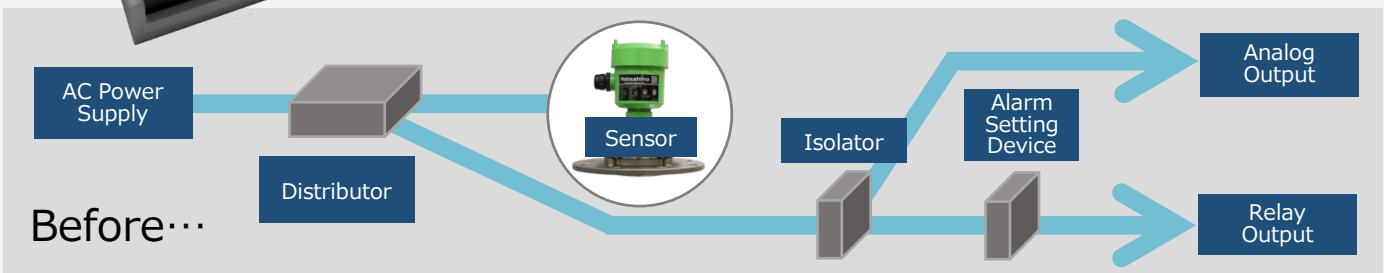
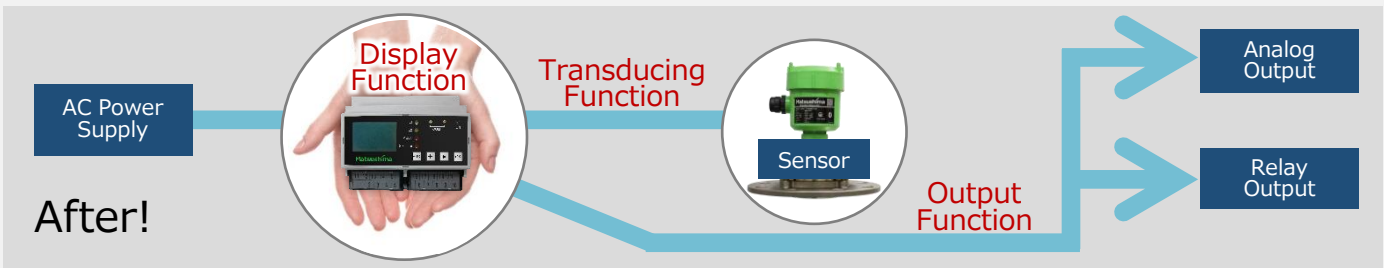
Matsushima
Matsushima Measure Tech

All in One Device!
Signal Conditioner

Analog Output
DC4~20mA　DC1~5V

Relay Output
4 Contacts
(Limit×2, Transducer failure×1, Sensor failure×1)





Various Use

- Distributor for 2-wire transmitting device
- For alarm setting device
- For digital indicator

Can be used for various devices

Features

- Measuring values can be confirmed at the local control panel with LCD digital display.
- Contact outputs are equipped as a standard feature, so there is no need to prepare additional transducer.
- Equipped with fault alarm outputs as a standard feature. Abnormalities of the sensor can be detected quickly. (When the current signal of the connected equipment can be burned out)
- Language: Japanese & English.
- Because terminal block can be detached, it is no longer to disconnect with each wiring for replacement.

MC-170646-02

Matsushima Measure tech Co.,Ltd.
URL : http://www.matsushima-m-tech.com/

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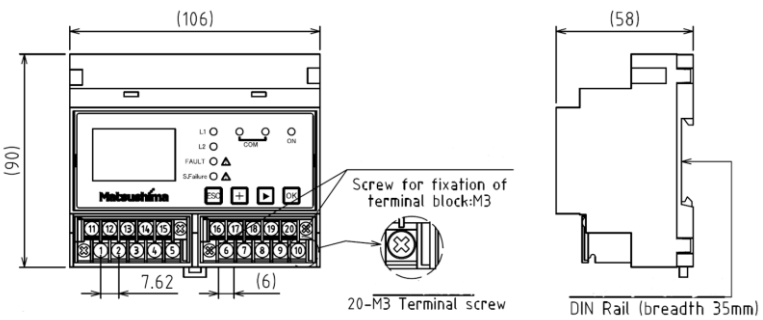
Specification

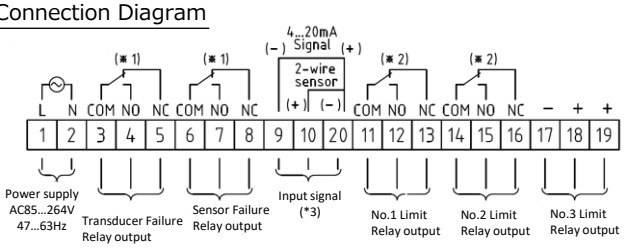
1. Type			MSC-01
2. Power Supply			AC85～264V,47～63Hz
3. Power Consumption			Approx.3W
4. Input Signal (※1)			DC4～20mA (Input resistance:250Ω)
			Current limited : DC24mA
5. Power supply for sensor	Output Voltage (No load)		DC24V(DC20～28V)
	Load of 20mA		≧DC18V
	Short circuit protection		Max.DC30mA（Protected time duration: No limit）
6. Output Signal	Analog output		DC4～20mA×1（Load : max.750Ω）
			DC1～5V×1（Load : max.500Ω）
			Resolution : 1uA（0.25mV）
	Relay output		4-SPDT（Limit×2,Transducer failure×1,Sensor failure×1） （※2）
			Rating : AC250V 5A/DC30V 5A
			Minimum hysteresis of setting : 0.1%
	Display	LCD	Digital display, Scale range : －99999～99999 Unit(Selection setting) : %,mg/m3,m,ft,℃,Pa,kPa,ton,mA etc.（22 Units）
		LED	Power（green）×1 , Limit（Yellow）×2 FAULT（Red）×1 , Sensor failure（red）×1
7. Installation			DIN rail
8. Connection			M3-Screw terminals（Tightening torque : 0.5N･m）
9. Operating temperature			-15～+55℃
10. Operating humidity			30～90%RH（no condensation）
11. Protection			IP20
12. Mass			Approx.300g
13. Insulation resistance			Between the Input, the Output and Power : ≧100MΩ/DC500V
14. Withstand			Input, Output or between Power and Earth : AC1500V 1min.

（※1）Connect with either “2-wire sensor” or “current output device “.
（※2）The sensor failure is useful when the connection equipment can burn out a current signal in case of abnormality.

Dimension



Connection Diagram



*1) Relay in diagram should show POWER-OFF and when operation.
*2) Relay in diagram should show POWER-OFF and when non-operation.
*3) Case to connect “2-wire sensor” : Please wire 10(+)-20(-) of the terminal stands.
Case to connect “Devices which outputs a 4-20mA” : Please wire 9(-)-20(+) of the terminal stands.
Wiring to the input terminal will be either one of the “2-wire sensor” and “Devices whice outputs a 4-20mA”.

Distributor

ISO 45001 JQA-QH0299 ISO 9001 ISO 14001 JQA-QM8197 JQA-EM7547 UKAS MANAGEMENT SYSTEMS 091
Head office and factory

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