

Digital Barometer



- Low-voltage and high-voltage types available
- Easy to view and set reference values without switching screen modes
- Supports real-time monitoring of remote readings and setting operations



NEW!



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Basic Features	Working principal	Digital pressure switch										
	Enclosure shape	square										
	Type	Low-pressure type					High-pressure type					
	Applicable gases	Non-corrosive gas, non-flammable gas (compliant with ISO8573-1:2010[7.4.4])										
	Display	3-color (red, orange, yellow-green) display (sampling rate: 4 times per second) temperature characteristics										
Electrical data	Rated pressure range	-101.3~101.3kPa					-0.101~1.000MPa					
	Set pressure range	-101.0~101.0kPa					-0.100~1.000MPa					
	Maximum withstand pressure	500kPa					1.5MPa					
	Comparison output	NPN collector open circuit output, maximum load current: 100mA, maximum supply voltage: 30V DC, internal voltage drop: below 1.5V										
		PNP collector open circuit output, maximum load current: 100mA, maximum supply voltage: 24V DC, internal voltage drop: below 1.5V										
	Display accuracy	±1%F.S. ±1 digits (Operating temperature: 25±10°C)										
	Repeatability	±0.2%F.S. ±2 digits										
	Power supply voltage	12~24V±10%										
	Current consumption	<45mA(No load)										
	Display resolution at different pressure units	0.1KPa					-					
		-					0.001MPa					
		0.001kgf/cm ²					0.01kgf/cm ²					
		0.001bar					0.01bar					
		0.01psi					0.1psi					
		0.1mmHg					-					
1inchHg					-							
Voltage-type analog output	None	Output voltage: 1~5V ±2.5% F.S. Linearity: ±1% F.S. Output impedance: Approximately 1KΩ			None	Output voltage: 1~5V ±2.5% F.S. Linearity: ±1% F.S. Output impedance: Approximately 1KΩ			None			
Current-type analog output	None	Output Current: 4~20mA±2.5% F.S. Linearity: ±1% F.S. Load resistance: Minimum 5KΩ, maximum 300Ω@12V; 600Ω@24V			None	Output Current: 4~20mA±2.5% F.S. Linearity: ±1% F.S. Load resistance: Minimum 5KΩ, maximum 300Ω@12V; 600Ω@24V			None			
MODBUS function	None			Have			None			Have		
Environmental conditions	Temperature characteristics	Within 1% F.S., reference temperature for comparison: 25°C (within operating range of 0~50°C)										
	Operating environment temperature	0~50°C (Non-condensing, non-freezing)										
	Storage temperature	-10~50°C (Non-condensing, non-freezing)										
	Operating environment humidity	35~85%RH (No condensation)										
	Storage humidity	35~85%RH (No condensation)										
	Protect degree	IP40	IP40	IP65	IP40	IP65	IP40	IP40	IP65	IP40	IP65	
Mechanical data	Connection method	Internal thread: M5; External thread: R1/8 (Asian standard, equivalent to PT1/8)										
	Dimension	30x30x21.3	30x30x40.3				30x30x21.3	30x30x40.3				
	Material	Plastic										
	Weight	About 85g (including power cable)										
	Accessories	One terminal power cable, one manual										
Model	NPN	MQ-01DN						MQ-10DN				
	PNP	MQ-01DP						MQ-10DP				
	NPN+PNP	MQ-01DNP						MQ-10DNP				
	2 channels NPN+analog voltage		MQ-02DNV	MQ-02DNVH				MQ-20DNV	MQ-20DNVH			
	2 channels NPN+analog current		MQ-02DNA	MQ-02DNAH				MQ-20DNA	MQ-20DNAH			
	2 channels PNP+analog voltage		MQ-02DPV	MQ-02DPVH				MQ-20DPV	MQ-20DPVH			
	2 channels PNP+analog current		MQ-02DPA	MQ-02DPAH				MQ-20DPA	MQ-20DPAH			
	NPN+RS485 communication					MQ-03DN-485	MQ-03DNH-485				MQ-30DN-485	MQ-30DNH-485
	PNP+RS485 communication					MQ-03DP-485	MQ-03DPH-485				MQ-30DP-485	MQ-30DPH-485

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

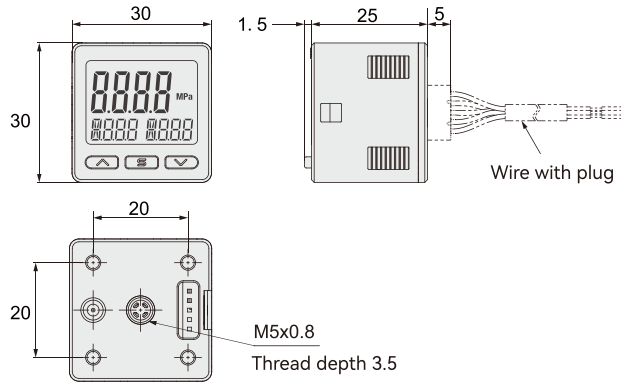
Barometers

Digital Barometer

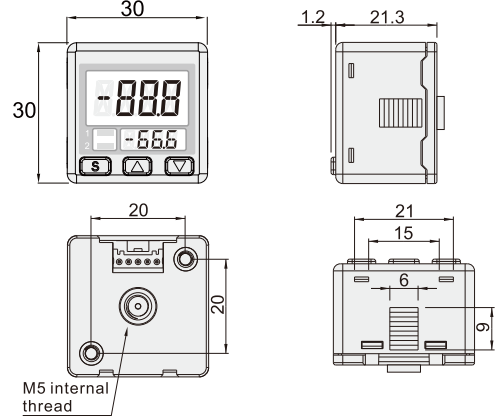
Dimensions

Unit:mm

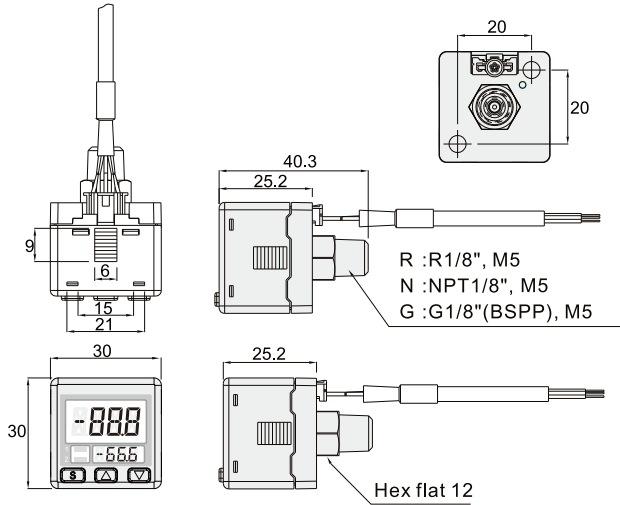
High protection rating (IP65)



MQ-01D/10D

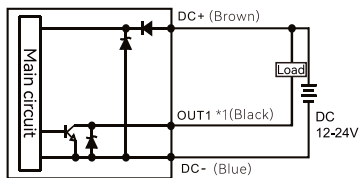


MQ-02D/20D/03D/30D

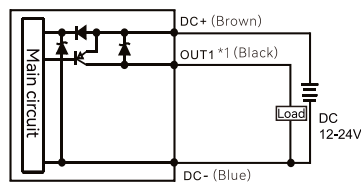


Circuit diagram

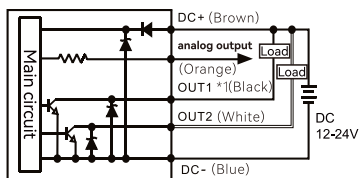
Single channel NPN



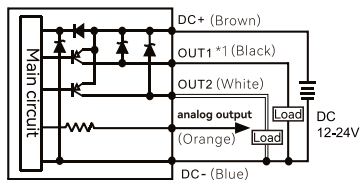
Single channel PNP



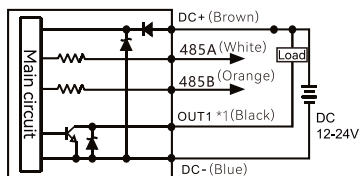
2 channels NPN + 1 channel analog output



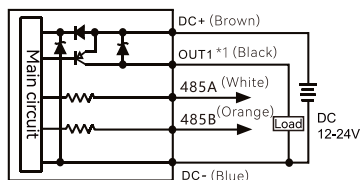
2 channels PNP + 1 channel analog output



1 channel NPN + Rs485



1 channel PNP + Rs485



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