

DIGITAL PANEL METERS



DM-5



DT-5

Available with a built-in 24 V DC power supply.



Digital Panel Meters

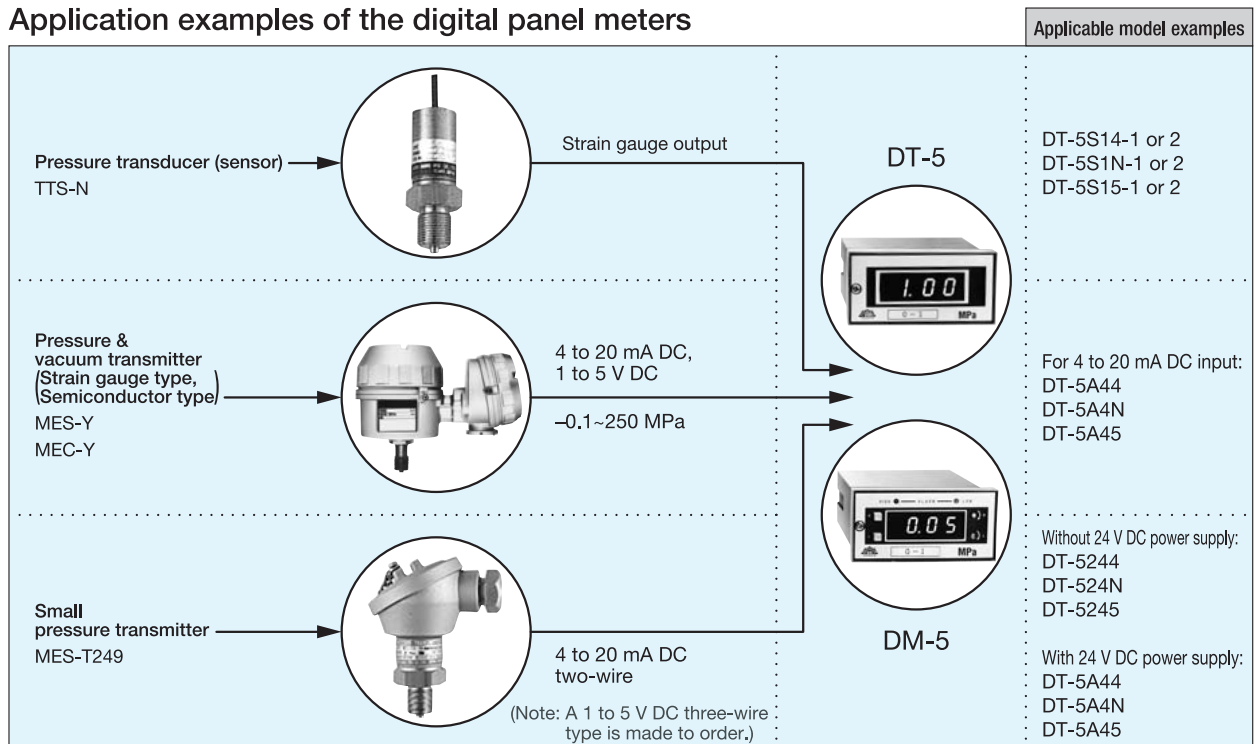
Outline

These digital panel meters numerically indicate output signals from a transmitter in their respective measurements, such as pressure, differential pressure, vacuum liquid surface temperature, angle of rotation, etc. The meters come in two versions: one with a digital indicator and the other with a built-in comparator.

Features

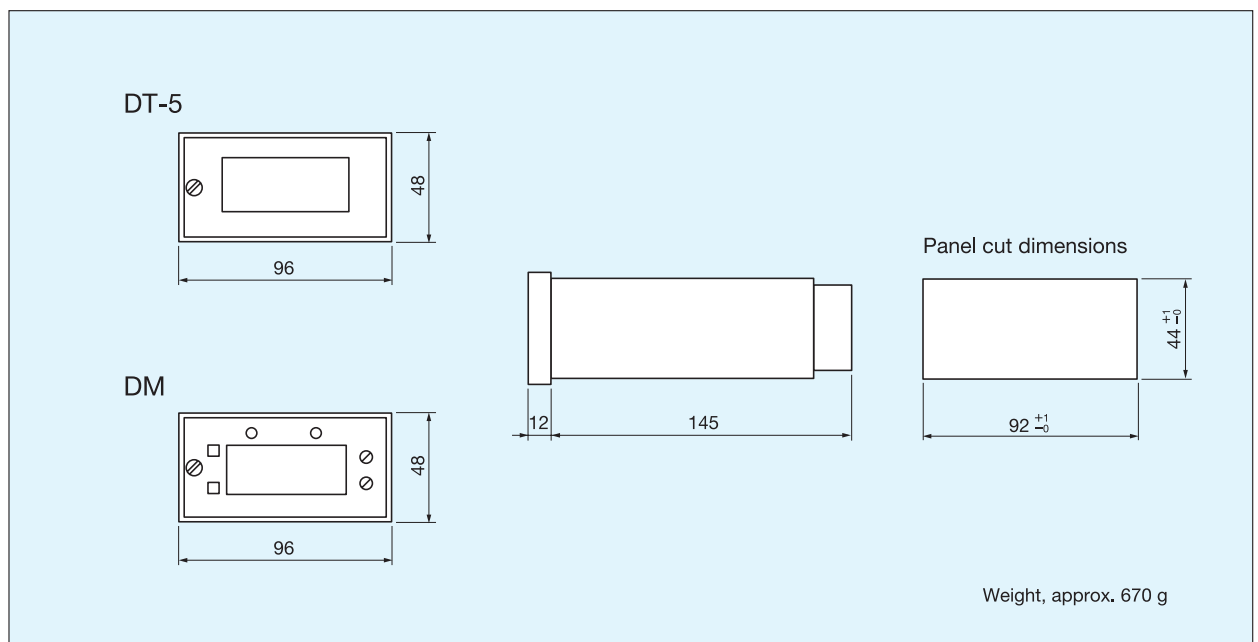
1. Scale made to order.
2. Low price.
3. Outside dimension pursuant to DIN size.
4. Output relay operation confirmed by pilot lamp.

Application examples of the digital panel meters



For a meter with contacts, the model prefix, DT, should be changed to DM.

Outside dimensions



DIGITAL PANEL METERS

Coding of model for digital panel meters

D		5		*			Description
Contact	T						Without contact
	M						With contacts H, L
Instrumentation input signal		V 0					0 to 10 mV DC
		V 5					1 to 5 V DC
		A 4					4 to 20 mA DC
		S 1					Strain gauge input (e.g. 2 mV/V DC)
		2 4					4 to 20 mA DC (two-wire) 24 V DC (built-in power supply)
		K T					Thermocouple Type K (former VT)
		J T					Thermocouple Type J
Option with external output signal			4				With 4 to 20 mA DC external output
			N				Without external output
			5				1 to 5 V DC external output
Power supply	* Necessary only for the strain gauge and semiconductor sensor input.			1			100/110 V AC
				2			200/220 V AC
Scale							Scale

Standard manufacturing specifications

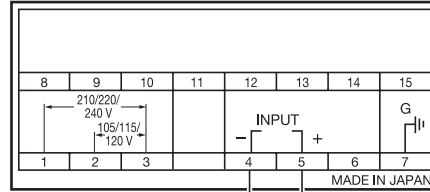
Descriptor		Model	DT-5	DM-5
Indication	Max indication		1999	
	Accuracy		FS±0.2%+1 digit	
	Indicator		Red LEDs; digit height, 12.7 mm.	
	Polarity		Attach minus (-) symbol to negative input signal.	
	Overflow		If input signals overflow, the decimal point is indicated and numerals disappear.	
Alarm	Measuring method			Analogue comparison
	Setting	—		Tap on H or L setting button and turn the trimmer until a desired figure is shown on the digital indicator.
	Setting range	—		Up to maximum figure.
	Setting accuracy	—		FS±0.2%+1 digit
	Setting points	—		Ceiling & bottom, 2 points
	Hysteresis	—		FS 0.2%
	Alarm	—		Relay contact SPDT Contact capacity, 125 V A AC (resistance load) 60 W DC
Alarm indication			LED H/L lit.	
Operating method			Double integral	
Input circuit			Floating	
Sampling speed			3 times/sec.	
Noise suppression ratio			NMR 20 dB or higher	
Voltage withstanding			Between terminal and case, 1500 V AC, 1 min.	
Insulation resistance			Not lower than 50 MΩ	
Decimal point			Please specify.	
Working temperature & humidity ranges			0~+50°C 10~80% RH	
Power supply			100/110 V, 200/220±10% V AC, 50/60 Hz	
Power consumption			approx. 3.5 VA	
Internal impedance			At voltage input, 100 kΩ	
			At 0 to 10 mV input, external impedance should be 50 Ω or under.	
			At current input, 250 Ω	
			* A meter with low impedance at 4 to 20 mA DC is made to order.	

*Note: These specifications may be changed for improvements without notice.

1 For current & voltage measuring (pressure transmitter, etc.)

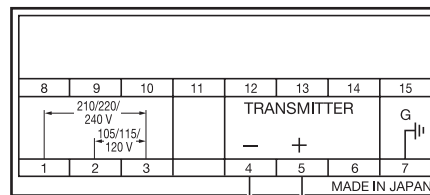
Applicable models DT-5V04 DT-5V54 DT-5A44
DT-5V0N DT-5V5N DT-5A4N
DT-5V05 DT-5V55 DT-5A45

• Those with external output are supposed to use terminals 8 and 9.



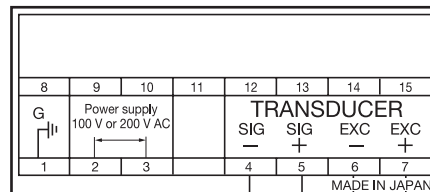
Without contact
Input { 4~20 mA
1~5 V
0~10 mV

Applicable models DT-5244
DT-524N
DT-5245



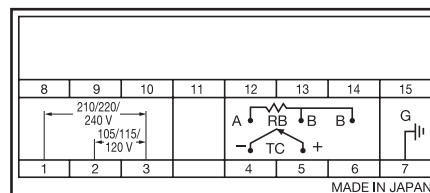
Without contact
Input 4 to 20 mA DC

Applicable models DT-5S14-1 or 2
DT-5S1N-1 or 2
DT-5S15-1 or 2



Without contact
Pressure transducer

Applicable models DT-5KT4 DT-5JT4 DT-51P4
DT-5KTN DT-5JTN DT-51PN
DT-5KT5 DT-5JT5 DT-51P5



Without contact
Input { Thermocouple
Resistance thermometer bulb
Pt 50 Ω
Pt 100 Ω

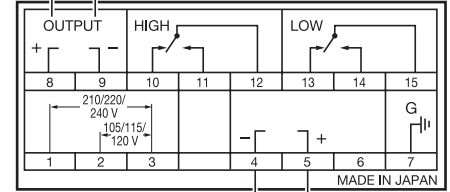
2 Two-wire panel meter (with built-in 24 V DC power supply)

3 Strain gauge for semiconductor sensor

4 For temperature measuring

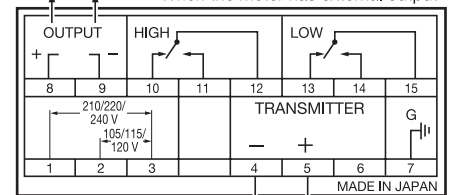
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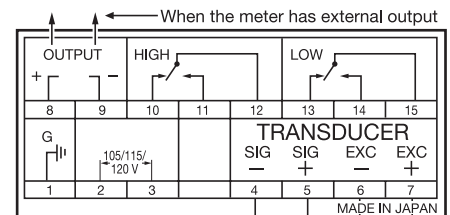
With contacts
Input { 4~20 mA
1~5 V
0~10 mV

DM-5244
DM-524N
DM-5245



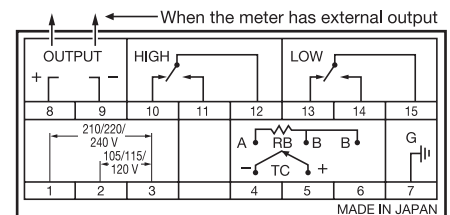
With contacts
Input 4 to 20 mA DC

DM-5S14-1 or 2
DM-5S1N-1 or 2
DM-5S15-1 or 2



With contacts
Pressure transducer

DM-5KT4 DM-5JT4 DM-51P4
DM-5KTN DM-5JTN DM-51PN
DM-5KT5 DM-5JT5 DM-51P5



With contacts
Input { Thermocouple
Resistance thermometer bulb
Pt 50 Ω
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