



RD-50R
Main Unit, RS-232C Type

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

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This model has been discontinued.
Compliance with the certification standard is ensured as of the time of shipment from our company.

Contact Us: 1-888-539-3623

Specifications

Model		RD-50R
Measurement function		DC voltage measurement, DC current measurement
A/D converting system		Successive comparison
Measurement range		±5 VDC, ±10 VDC, 4 to 20 mA DC (selectable)
Display range		-19,999 to +39,999
Measurement accuracy		±0.03 % of F.S. (at ±5 VDC range), ±0.03 % of F.S. (at ±10 VDC range) ±0.05 % of F.S. (at 4 to 20 mA DC range)
Input	Impedance	1 MΩ (for voltage input), 350 Ω (for current input)
	System	Single-ended
	Number of inputs	2
Sampling rate		2,000 times/second
Display speed		20 times/second
Display power		7-segment 3-color LED (character height: 15.24 mm 0.60")
Over-range alarm		FFFF is displayed
Control input		Synchronous, Hold-reset, Auto-zero, External setting, NPN or non-voltage contact signal
Control input	Timing input	
	Hold reset input	
	Auto-zero input	
	External setting input	
Control output	Setting method	4 steps x 8 programmable setups (selectable)*1
	Signal	5 x NPN (HH, HI, GO, LO, LL): 100 mA max. (40 V max.)*1
	Response time	1 ms (when average number 1)*1
	OFF-delay time	60 ms (ON/OFF selectable)*1
Analog output voltage	Output voltage	±10 VDC
	Impedance	100 Ω
	Response time	1 ms (when average number 1)*2
Interface		Data output and control input through RS-232C
Major functions		MDL, digital filter, auto-zero, offset, input, data processing (10 modes), tolerance limit storage (up to 8 sets), decimal point shift, error message display, etc.
Rating	Power voltage	24 VDC ±10 %, Ripple (P-P) 10 % or less
	Current consumption	270 mA or less

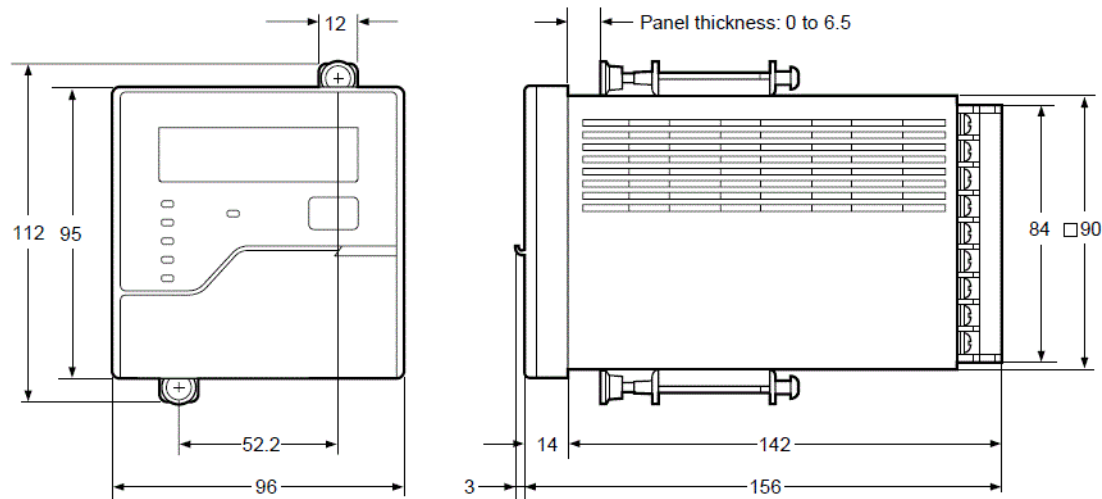
Environmental resistance	Ambient temperature	0 to +50 °C 32 to 122 °F
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
Weight	Approx. 700 g (excluding fittings)	

*1 NPN output can easily be converted to PNP output by connecting the optional OP-5148 PNP output converter.
*2 Requires 1.5 ms every second during self-compensation sequence to prevent temperature fluctuations.

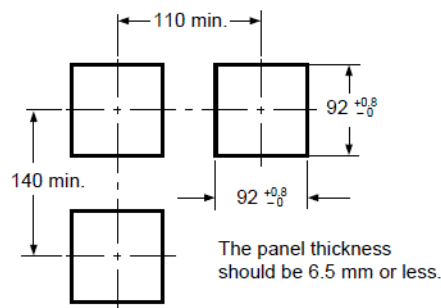
Dimensions

* Download CAD file or product manual for larger image/text and more detail.

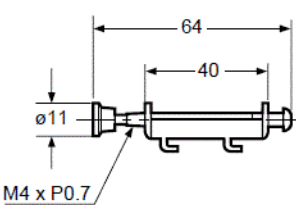
RD50E(W)/RD50R(W)



Panel cutout



Mounting bracket



Unit: mm