



R-DTI



R-SIT

MECO-G DC Isolation / Signal Isolation transducers measures DC Voltage or Current and convert the signal into a standard industrial DC signal which is directly proportional to the measured input signal. These transducers provide an output which are load independent and isolated from the input. These outputs are accurate, reliable, consistent and stable and are suitable for Telemetry for remote, local as well as Central Monitoring Systems, Data-loggers, PLC's, SCADA systems and control applications.

GENERAL SPECIFICATIONS

Accuracy	± 0.5% (Standard), ± 0.2% (Optional) of Rated output for R-DTI ± 0.5% of Rated output for R-SIT
Output Ripple	0.2% RMS
Response	Less than 0.5 Sec.
Zero Adj.	± 2% Min.
Span Adj.	± 10% Min.
Operating Temp.	0-50°C (RH<90%) (Non Condensing)
Storage Temp.	-20°C to 70°C (Non Condensing)
Overload Continuous	2x Rated Current, 1.2x Rated Voltage
Breakdown Impulse Voltage	1x40µs 4.5 KV (without dewing.)
Temperature Coefficient	0.03% / °C.
Dielectric Withstand Voltage	2KV for 1 min. (Standard), 4KV (Optional) across Casing - Input / Output / Auxiliary
Insulation Resistance	>100 MΩ at 500VDC

TYPE	MODEL
Signal Isolation Transducer (Positive Input Signal)	R-SIT
DC Isolation Transducer (Negative and Positive Input Signal)	R-DTI

DC INPUT		AUXILIARY POWER SUPPLY		DC OUTPUT RANGES			
Voltage	0-50/ 60 / 75 / 100mV	0-110 / 220VAC ± 10% 50/60 Hz Approx.		Current		Voltage	
	0-1 / 5 / 10 / 1-5V	85-264V AC/DC ± 10%		Output	Load	Output	Load
	2-10 / 1000V	19-90V AC/DC ± 10%		0-1mA	≤10kΩ	0-1V	≥1kΩ
Current	0-1 / 5 / 10 / 20mA	0-24 / 48 VDC ± 10% 2Watts Approx.		0-5mA	≤2kΩ	0-5V	≥5kΩ
	2-10 / 4-20mA	0-110V DC ±10% 2 Watts Approx.		0-10mA	≤1kΩ	1-5V	≥5kΩ
	1ADC / 5ADC	0-220V DC ± 10% 2 Watts Approx.		0-20mA	≤500Ω	0-10V	≥10kΩ
Burden - Voltage	10kΩ / Voltage			4-20mA	≤500Ω	2-10V	≥10kΩ
Burden - Current	100mV			4-12-20mA	≤500Ω		

- Note:
- 1) Bi-Directional Inputs eg. (-75) - 0 - (+75)mV also available. (R-DTI Only)
 - 2) Bi-Directional Outputs eg. 4-12-20mADC also available.
 - 3) Asymmetrical / Symmetrical output transducers are available.
 - 4) Other auxiliary Power supplies available, subject to technical feasibility
 - 5) All input ranges are suitable with Shunts.
 - 6) Other ranges (Inputs / Outputs) available on request, subject to technical feasibility.

CONNECTION DIAGRAM

