



T-TPR TAP POSITION TRANSDUCER



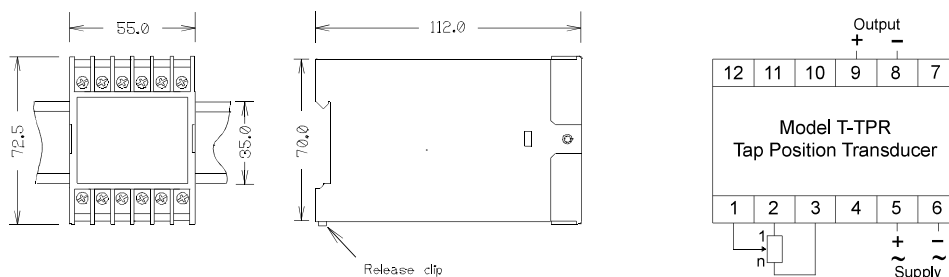
The Carrel Electrade T-TPR resistance type tap-position transducer converts a potentiometric voltage into a load independent dc current or voltage signal capable of driving a number of independent instruments. Power for the unit is derived from an auxiliary supply.

The unit conforms to IEC 60688. In addition it meets the insulation requirements of IEC 60255-5, clauses 5, 6 and 8 as well as the high frequency disturbance test of IEC 60255-22-1 for Class III test voltage.

Specifications

Input	DC voltage across a resistance potentiometer	
	Excitation voltage V_e	: 1.25V dc to 10V dc
	Standard nominal range $0 - V_{nom}$: $0 - V_e$
	(others on request)	
	Accurate range	: $0 - 100\% V_{nom}$
	Input resistance	: $>1M \text{ Ohms}$
Output	Overload capacity	: $2 \times V_{nom}$ continuous
	Linear voltage or current proportional to input	
	Standard nominal outputs	: $0-10mA \text{ dc } <1500 \text{ Ohms load}$
	(others on request)	: $0-20mA \text{ dc } <750 \text{ Ohms load}$
		: $4-20mA \text{ dc } <750 \text{ Ohms load}$
		: $0-5V \text{ dc } >2k \text{ Ohms load}$
		: $0-10V \text{ dc } >2k \text{ Ohms load}$
	Ripple	: $<1\% \text{ pk to pk}$
	Response time	: $<250ms \text{ } 0-90\%$
		: $<500ms \text{ } 0-99\%$
Auxiliary Power		: 24V, 110V, 230/240V, 400/415V ac $\pm 20\%$ 2VA
		: 24V dc $\pm 20\%$ or 110V/125V dc (88V-138V) 2W
Accuracy		: Class 1 to IEC 60688
		: $\pm 1\%$ of nominal output for specified range
Isolation	Galvanic isolation between input and output and the auxiliary supply circuits	
	Test voltage	: 4kV rms 50Hz for 1 minute
	Impulse	: 5kV 1.2/50 μ sec waveform
Temperature	Operating	: -10°C to $+20^\circ\text{C}$ to $+50^\circ\text{C}$
	Storage	: -20°C to $+70^\circ\text{C}$
EMC Compliance		: AS/NZS 61000.6.3:2012
Housing	Self extinguishing grey polycarbonate to IP40 snap mounting on top hat rail DIN EN 50022-35	
Terminals	Tinned steel pozi-drive M3 screws with captive square washers suitable for $2 \times 2.5mm^2$ conductors (max).	
	Optional terminal covers raise rating from IP10 to IP20	

Housing & Connection Diagrams



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