



T-TPR TAP POSITION TRANSDUCER



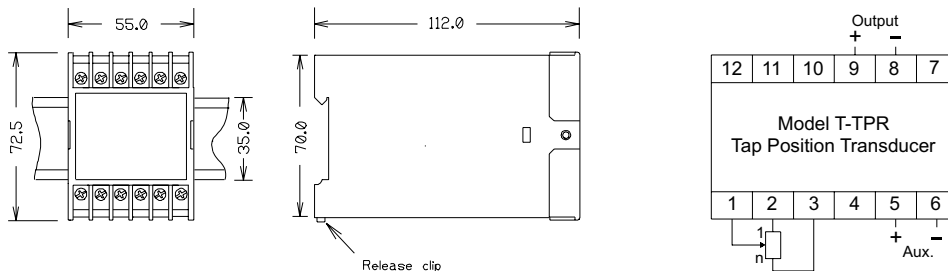
The Carrel Electrade T-TPR resistance type tap-position transducer converts a potentiometric voltage into a load independent dc current or voltage signal capable of driving a number of independent instruments. Power for the unit is derived from an auxiliary supply.

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 : $>1M$ Ohms Overload capacity : $2 \times V_{nom}$ continuous
Output	Linear voltage or current proportional to input Standard nominal outputs : 0-10mA dc <1500 Ohms load (others on request) : 0-20mA dc <750 Ohms load : 4-20mA dc <750 Ohms load : 0-5V dc $>2k$ Ohms load : 0-10V dc $>2k$ Ohms load Ripple : $<1\%$ pk to pk Response time : $<250ms$ 0-90% : $<500ms$ 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 : $-10^\circ C$ to $+20^\circ C$ to $+50^\circ C$ Storage : $-20^\circ C$ to $+70^\circ C$
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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