



COMPACT LOOP CALIBRATOR

The Mr. Signal is a simple, low-cost loop calibrator for use in valve assembly shops, by field service personnel, and for sales demonstrations of VAC valve positioners.

This compact unit can provide the 4-20mA signal, as well as read the loop powered feedback. It has the ability to do both simultaneously using the internal power supply. Resolution of 0.001mA is unheard of at this price point.

Numerous advanced features are available such as auto step and loop functions.

The VAC Compact Loop Calibrator includes:

- One set of professional grade alligator clip test leads
- USB rechargeable batteries for up to 8 hours of continuous operation (Can be replaced with 3 AA batteries)
- USB charging cable
- Storage case



parameters Signal parameter list

Output signal					
Type	Range	Precision	Resolution	Coefficient	Internal Impedance
Current(mA)	0~24mA	0.05%	0.001mA	+25PPM	100Ω
voltage (V)	0~12V	0.05%	0.001V	+25PPM	500k
Passive current (mA)	0~24mA	0.1%	0.001mA	+25PPM	100Ω
24V Loop frequency(Hz)	0~9999Hz	0.03%	0.01mA	+25PPM	100Ω
millivolt (mV)	-10~110mV	0.05%	0.01mV	+25PPM	1Mk
TC-S	0-1760°C	0.2%	1°C	+25PPM	2K
TC-B	0-1810°C	0.5%	1°C	+25PPM	2K
TC-E	0-990°C	0.2%	1°C	+25PPM	2K
TC-K	0-1320°C	0.2%	1°C	+25PPM	2K
TC-R	0-1760°C	0.3%	1°C	+25PPM	2K
TC-J	0-1190°C	0.3%	1°C	+25PPM	2K
TC-T	0-390°C	0.2%	1°C	+25PPM	2K
TC-N	0-1290°C	0.2%	1°C	+25PPM	2K
Pt100	-200~650°C	0.5%	1°C	+50PPM	---
Cu50	-20~150°C	0.5%	1°C	+50PPM	---

Input signal					
Type	Range	Precision	Resolution	Coefficient	Internal Impedance
Current(mA)	0~24mA	0.1%	0.01mA	+25PPM	100Ω
voltage (V)	0~12V	0.1%	0.001V	+25PPM	500k
frequency(Hz)	0~9999Hz	0.1%	5bit	+10PPM	1Mk
millivolt (mV)	-10~110mV	0.1%	0.01mV	+25PPM	2Mk
TC-S	0-1760°C	0.2%	1°C	+25PPM	2Mk
TC-B	0-1810°C	0.5%	1°C	+25PPM	2Mk
TC-E	0-990°C	0.2%	1°C	+25PPM	2Mk
TC-K	0-1320°C	0.2%	1°C	+25PPM	2Mk
TC-R	0-1760°C	0.2%	1°C	+50PPM	2Mk
TC-J	0-1190°C	0.2%	1°C	+25PPM	2Mk
TC-T	0-390°C	0.2%	1°C	+25PPM	2Mk
TC-N	0-1290°C	0.2%	1°C	+50PPM	2Mk
Pt100	-200~650°C	0.1%	0.1°C	+50PPM	2.5k
Cu50	-20~150°C	0.1%	0.1°C	+50PPM	2.5k
Resistor	0~400Ω	0.1%	0.01Ω	+50PPM	2.5k

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