

VPI

VERSATILE PROCESS INDICATOR

FEATURES

√Easy setup

√Toll Free Technical Support

√Universal at dedicated meter prices: dc and ac Volts and Amps, Strain, Process, RTC's, Thermocouples √60 conversions per second for:

Fast control response

True peak reading

Analog outputs that track the Input

√Scalable to 5 digits

Engineering units to ±99,999

Setup by front panel push buttons

√Worldwide Input power:

85 to 264 Vac and 90 to 370 Vdc

√Isolated 10 or 24 Vdc output

Provides transmitter excitation

√Peak hold and auto tare

√Automatic, adaptive digital filter

√Plug-in screw terminals

PLUG-IN OPTIONS

√Dual setpoint Controller
10 Amp, 260 Vac relays or
Isolated transistor outputs
√Isolated linearized analog outputs
0 to 10 Vdc or 0 to 20 mA
√Isolated digital communications
RS-232 for interface and meter setup
RS-485 to Interface with multiple meters
Baud rates from 300 to 19,200
Parallel BCD output
√Isolated low voltage power supply
9 to 37 Vdc and 5 to 28 Vac inputs



The VPI is a low cost solution to a wide range of monitoring and control applications. By simple front panel push button setup, one meter with a universal signal conditioner can be programmed to display DC or AC voltage or current, any of 6 popular thermocouple types, 100 Ohm platinum RTD's, strain gauges and process signals. All at the price of a single function meter!

Input signals may be displayed as voltage or current or scaled five full digits from 0 to 99,999 to read directly in engineering units such as ft-lbs, rpm, psi, etc. No calibration equipment is required when changing ranges; all ranges are digitally precalibrated at the factory. Temperature scales (Celsius or Fahrenheit) are selectable from the front panel.

The VPI makes 60 readings per second (50 for 50 Hz operation) for fast control response, true peak reading capability, and an analog output that accurately tracks the signal input. The meter has an adaptive digital filter that can automatically select the best time constant for minimum noise but yet responds rapidly to an actual change in signal level. The peak value of the input signal can be displayed by a push of a button on the front panel. Auto tare allows the meter display to be set to zero for any input signal level.

The VPI provides an isolated 10 Vdc or 24 Vdc output to power strain gauges and transmitters, eliminating the need for an external supply.

The meter has two alarm indicators with the setpoints programmed by front panel pushbuttons. Transistors or dual 10 amp relays may be added to provide control outputs. The outputs can be set to operate above or below the setpoint and in a latched or nonlatching mode. Time delays of the outputs are digitally selectable.

0 to 10V or 0 to 20mA analog outputs are available to drive chart recorders, remote displays or for transmission to a central control room. The outputs are scaled through the front panel push buttons. Adding RS-232 or RS-485 enables the meter to communicate with PLC's or computers. Baud rates can be set from 300 to 19,200. Software provided with these options makes meter setup even easier. Three state, parallel BCD outputs are also available.

Toll Free: 1-800-562-3235

Ph: 1-570-731-7048

Fax: 1-570-731-7054

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Web: www.800loadcel.com

Email: sales@800loadcel.com

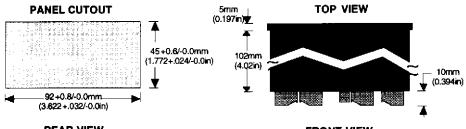
Isolated 10 or 24 Vdc output



SPECIFICATIONS

Display	Accuracy at 25°C	Environmental
Type 5LED, 7-segment, 14.2mm (.56")	DC Volts, Amps, Ratio 0.01% FS +/-1 Ct.	Operating Temperature 0°C to 55°C
high digits and 3 LED indicators	Thermocouple 0.2°C max.	Storage Temperature40°C to 85°C
Color Red or green	RTD 0.04°C max.	
Range99999 to +99999 and	True RMS (1 to 100%FS) 0.05%FS,	Operating Power
-99990 to +99990	10 Hz to 10 kHz	Voltage (std) 85 to 264 Vac, 90 to 370 Vdc
A to D Conversion	Load Cell Meter 0.01%FS+/-1 Ct.	Voltage (opt) 8 to 28 Vac, 9 to 37 Vdc
Technique (Pat. Pend)	Span Tempco 0.003% of reading/°C	Frequency DC and 47 to 440 Hz
Slope™	Zero Tempco 0.1 Cts./°C	Excitation Power Supplies
Rate	Reference Junction 0.03 degree/degree	Outputs 5 Vdc, 5%, 200mA max.
50/s at 50 Hz operation		10 Vdc, 5%, 120 mA max.
Output Update Rate 56/s at 60 Hz	CMV from DC to 60 Hz Safety-rated to 250 Vac	24 Vdc, 5%,50 mA max.
	4.2 kVp per High Voltage Test	Isolation (power gnd) Safety-rated to 250 Vac
	CMR from DC to 60 Hz 130 dB	
	NMR to 50/60Hz Line 90 dB with minimum filtering	

MECHANICAL

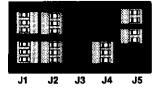


The VPI series uses screw terminal connections that plug into the mating printed circuit board jack.

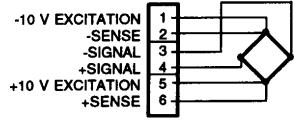




REAR VIEW







VPI-LC

Input	Resolution	Output	Output	Error
Range		Zero	Span	at
in mV		Range	Range	25°C
20.000 50.000 100.00 250.00 500.00	1 uV 2.5 uV 5 uV 12.5 uV 25 uV	-99,999 to +99,999	0 to +/-99,999	.01%FS +/-1Ct.

VPI-SC

Range	Resolution	Input Ohms	Error at 25°C
200.00 mV	10 uV	1 G	.01%FS
2.0000 V	100 uV	1 M	+/-1Ct.
20.000 V	1 mV	1 M	
200.00 V	10 mV	1 M	
660.0 V	100 mV	10 M	

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