The Schaevitz® microprocessor based LVDT indicator

and set-point controller is designed for industrial and process control applications utilizing any LVDT/RVDT-based measurement device. In addition to displaying real-time readings of LVDTs, RVDTs and gage heads, the MP2000 also displays MIN, MAX, TIR, A+B and A-B values. Programmable, opto-isolated, open collector setpoints may be assigned to any of the above functions.

A 17-bit analog-to-digital converter provides excellent performance and resolution. A new standard 9- pin RS-232 pin- out provides serial data output to a PLC or PC com port.

MP Series readout/ controllers are packaged in a 1/4 DIN aluminum case with a EL back-lit, it-mapped LCD display. (Units are splash-proof when mounted with a gasket.)

Set-point Control

Four user-programmable digital setpoints are used to monitor any display parameter. Any combination of high or low setpoints may be selected. User programmable, high and low hysteresis values may be used to create set-point dead band, for prevention of control relay chatter. Each channel decimal point is individually programmable, via the set-up menu. **Auto-Calibration**

A front panel pushbutton auto-zeros (tares) over the ± full scale range. Auto-calibration eliminates calculation of slope or gain factors. Calibration and setup parameters are stored in nonvolatile memory for retention on power down or interruption.

Readings

A large, easy to read, bit-mapped display provides user-friendly, menu driven prompts for simple push-button system setup, calibration and monitoring of in-process measurement parameters.

- Current value
- min/max
- A+B (sum of two channels)
- A-B (difference between two channels)
- TIR (Total Indicated Run-out)

Outputs

A real-time scaled analog output, proportional to the digital readout is provided for each LVDT channel. An RS-232 output is provided for data transfer to a computer at 1200 to 19.2K baud.

FEATURES

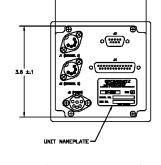
- Large 10 mm High Display Characters
- Software Set-Up Menu
- Industry Standard 9-Pin RS-232 Connector
- Greatly Enhanced Long-Term Reliability
- Rugged DIN Style Power Supply Connector
- Two Channels for the Price of One

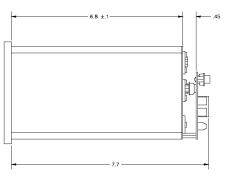
APPLICATIONS

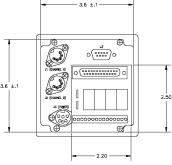
- LVDT-Based Weighting Systems
- Pass/Fail Part Sorting
- Roller Gap Control
- Concentricity Gaging
- Press Cycle Control
- Part Classification



dimensions







NOTE: shown with optional relay card

MP2000 Series Rev 1

www.meas-spec.com

09/18/2008

SUNSTAR自动化 http://www.sensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:szss20@163.com

Specifications and Features

LVDT Excitation Voltage 1 and 3 rms

LVDT Drive Current Up to 25 mA rms per LVDT 2.5, 3.3, 5, and 10 kHz (+/- 5%) **Excitation Frequency** 0.6 or 1.2 V rms for full scale readout Input Sensitivity

Input Impedance >100k ohms

≤ +/- 0.02% of full scale Linearity

Digital Display 5 digit +/- 99.999 10 mm (0.4") high bitmapped LCD with EL Backlight

Analog Outputs +/- 5 or 0 to 10 Vdc

Set-Points 4 user-programmable, high or low with on-board LED indicators

Set-Point Hysteresis User Programmable

Set-Point Outputs Opto-isolated open collector logic outputs, 5 VDC, 4 mA per set-point

Response Typically within 20mS

Operating Temperature 0 to 55C

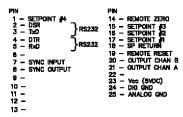
Power Requirements 100 to 240 VAC, 47 to 63 Hz

connections

READOUT/ CONTROLLER INPUT CONNECTIONS (LVDT WITH LEADS)



PIN OUT CONNECTIONS (J4)



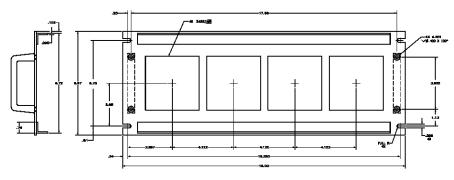
accessories

- Relay Option Board
- Lab Stand/ Bench Mount
- 4-Up Rack Adaptor (bottom)

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ordering info

MP-2000 Model: P/N: 02291335-000



MP2000 Series Rev 1

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