



**PRECISION GAGE & TOOL COMPANY**

# P-400 DRO Metrology Interface

The new P-400 DRO is an advanced metrology display—and much more. Combined with an air/electronic converter and air gage tooling or LVDTs from Precision Gage & Tool, it's a high-accuracy, economical gaging instrument ideal for applications requiring up to eight discrete inputs.

With intuitive visual displays, helpful audio cues and user-defined formulas, the P-400 DRO reports dynamic min/max measurements, provides SPC analysis from an integrated database and includes connectivity to PCs and other peripherals.

**Get visual feedback** from an easy-to-read, familiar interface with standard color cues and a choice of graphical formats, including bar diagrams, histograms and dial indicators. The P-400 instantly informs operators of pass/fail performance details for critical part dimensions.

**An integrated SPC database** lets you efficiently store, retrieve and manage measurement data on the shop floor. USB and RS-232 connectivity allows users to share data throughout quality and process control systems, and provides program storage capability. Tolerance values, SPC parameters and custom formulas can be managed for up to 100 parts, each with up to 16 visible and 16 hidden measurement features. Rapid data acquisition allows monitoring of dynamic events, such as the eccentricity of a rotating shaft. The Min/Max function monitors and stores highest and lowest measured or calculated values; warning and tolerance limits can be assigned to each display value.

**Apply mathematical formulas** to measurement data from up to 16 output channels for on-the-spot analysis. Inputs can be combined and assigned as required with mathematical, trigonometric or statistical formulas, making the P-400 ideal for everything from simple ID and OD checks to complex dimensions such as thickness, flatness, volume and more. Combine individual measured values or measurement sequences to create complex calculations, such as the circumference of a turned part, volume of a cube or the angle between cam lobes.

**Other external connections include:** Footswitch • Remote keypad • Parallel port



## Specifications

Display	5.7" color LCD flat panel
Resolution	.000004"/.0001 mm
Inputs	4-, or 8-axis
Outputs	2 relay outputs
Data interface	RS-232-C/V2.4; USB
Switching inputs	5TTL inputs (freely definable)
Switching outputs	12TTL inputs (freely definable), 2 relay outputs
Input voltage range	85 VAC-264 VAC
Input frequency	43 Hz-63 Hz
Operating temperature:	0°C-45°C
Protection	EN 60529; IP 40
Enclosure dimensions (W x H x D)	11.5" x 7.5" x 2.75"
Base dimensions (W x H x D)	10" x 2" x 7.5"
Weight	10.5 lbs
Accessories	Mounting base, foot switch, remote keypad, protective cover



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