

Model MPPU - Multi-Purpose Processing Unit

for Width and Length Measurement

Overview

The **SCAN-A-LINE™ Model MPPU, Multi-Purpose Processing Unit**, is the newest and most versatile of the Harris Instrument Corporation Strip Measurement Family of processing units. Utilizing a high speed micro-controller, the **Model MPPU** is capable of measuring the width of products with stable or varying passlines as well as length of moving pieces. The MPPU is compatible with Harris 10XAS and 10XBR series sensors. Options include several digital displays, analog outputs and communication ports.

The micro-controller features battery-backed RAM (plus a customizable EPROM), three RS-232 communications ports (one available to the customer) and a clock/calendar option. All mathematical functions are performed using IEEE floating point to ensure accurate calculations. The serial communications output from the **Model MPPU** may be formatted for up to two Programmable Logic Controller (PLC) protocols. Two SCAN-A-LINE™ 10X-Series sensor systems are compatible with the **Model MPPU** for real-time dimensional measurement applications.

Configurations

The **Model MPPU** comes in four distinct configurations representing varying levels of operator interface.

- **Level 1: RS-232 Customer Interface** that outputs measurement, fault status and time & date.
- **Level 2: Windows® Software Interface** programmed to customer specifications.
- **Level 3: LED Display and Keypad Interface** displaying measurement, limit status, fault status, unit of measurement and time & date.
- **Level 4: LCD Touchscreen Interface** displaying measurement, limit status, unit of measure, time & date, and measurement graph.

All levels of the **Model MPPU** are available in Imperial or Metric readout. All levels supply power and signal processing for up to two 10XAS or 10XBR Series sensors. The Display Interface on the Level 3 or Level 4 interfaces are available on the enclosure front panel or may be mounted remotely (optional) and can be operated in conjunction with optional Terminal software.

Features

- Available in Standard Width Measurement, Passline Independent Width Measurement and Length Measurement configurations.
- Compatibility with standard 10XAS sensors and 10XBR-Passline Independent Sensors. One or Two sensors per processor.
- Available with LCD Touchscreen, LED Display/Keypad, and Windows® Software, RS-232.
- Compatible with SPM remote display units
- Two 12 bit Analog Outputs: for absolute width (0-10VDC) or width deviation (± 10 VDC);
- Serial Communications Port: RS-232; Optional Short-haul modems available.
- HI/GO/LO Condition Relays: 5 amp Form A Relays.
- Sensor FAULT Alarm : Open Collector Output:
- System Power : Universal 90 - 240VAC Switchable, UL1950, 50-60 Hz at 2 Amps Max.
- Enclosure Dimensions: 12" [305mm] wide x 14" [356mm] tall x 6" [152mm] deep.



MPPU Level 4 with Touchscreen

Model MPPU - Multi-Purpose Processing Unit

Level 1 - RS-232 Customer Interface:

Serial Communications – one RS-232 port for communication with software interface/host computer (PC, etc.), one available to customer for other data input/output.

Analog Outputs: One Absolute (0-10 VDC) and one Deviation. (+/- 10 VDC)

Single- or Dual-Sensor Operation.

**Model MPPU
Level 1**



Level 4 - LCD Touchscreen Interface:

LCD Six-digit Display with Decimal Point. Imperial or Metric Units

Serial Communications – one RS-232 port for communication with software interface/host computer (PC, etc.), one available to customer for other data input/output.

Analog Outputs: One Absolute (0-10 VDC) and one Deviation. (+/- 10 VDC)

Single- or Dual-Sensor Operation.

**Model MPPU
Level 4**



Level 3 - LED Display/Keypad Interface:

LED Six digit Display with Decimal Point.

Alpha-Numeric Messaging Window

Sixteen-button Keypad

Serial Communications one RS-232 port for communication with software interface/host computer (PC, etc.), one available to customer for other data input/output.

Analog Outputs: One Absolute (0-10 VDC) and one Deviation. (+/- 10 VDC)

Single or Dual-Sensor Operation



**Model MPPU
Level 3**

Available Options

Optional Analog Outputs: Centerline Position or Multi-Strip Measurement.

Serial Panel Meters: Model SPM-E-225 or Model SPM-E-400 (Level 4 Only).

Short-Haul Modem: MSH Option.

Statistical Reporting: SPC-1 & SPC-2 Options

Many more options available. Contact Harris Instrument Corporation Sales for more information.



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