Micro MP3



Introduction

The Micro MP3 is a **bi-directional, triple stream, three (3) meter run,** custody flow computer with an ultra-low power, 32-bit microprocessor. It primarily used for the measurement of liquids.

Ten (10) **previous days, batches, and hours** of historical data are stored in full format-type reports, as well as 50 previous audit trail reports and alarms. Sixteen (16) different product files are user-configurable with easy switch feature, and **product scheduling** for **batch operation** is available.

A frequency or analog signal can be received from a **Densitometer**.

An optional **Multivariable Module 205 Sensor** may be integrally mounted to the Micro MP3 to allow accurate determination of **differential pressure, static pressure, and temperature.**

Micro MP3 Details

Specification

32 Bit Processor 7-28 VDC @ 0.5 WATT NEMA 4X Class 1 Div. 1 Group B, C and D Housing

Display

4 Lines, 20 Characters Backlit Display Minutes, Hours or Days Automatic Scrolling

Standard Interfacing

Serial Modbus (3) Frequency Channels (4) Analog Inputs (1) Analog Output (4) Digital I/O's (1) RS-232 Port (2) RS-485 ports (1) Printer Output Rosemount Multivariable-DP, Press., & Temp. 0.075 % Accuracy of Calibrated Range

**Input or Output Expansion Module Available

Interrogation Upgrade Options

TCP/IP Encapsulated Modbus GSM/ Radio Satellite

Applications

Batching Product Scheduling Well Head Measurement Custody Measurement Allocation Measurement Gas Process Plants PID Control Smart Field I/O

Standardization API, ISO, AGA

Units of Measurement Metric & US Customary

Metered Products

Crude Oil (SG2004, API2004) Refine Products (SG2004, API2004) Specialized Products (SG2004, API2004) LPG Lube Oil (SG2004, API2004) Ethanol Butadiene (ASTM 1550A/B, 1550B) Propylene (API2565) Ethylene (API2565)

Instrumentation Turbine/ Freq. Meter

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Technical Data- Micro MP3	
POWER	
VOLTAGE RANGE	7-28 VDC
POWER CONSUMPTION	0.5 WATT
OPERATING CONDITIONS	
UNITS	US or METRIC
TEMPERATURE	- 40 TO 185 °F
HUMIDITY	100%
HOUSING	NEMA 4X CLASS 1 DIV. 1
FEATURES	
DISPLAY	PLASMA 4 LINES 20 CHARACTERS BACKLIT DISPLAY WITH FOUR (4) INFRARED
	REFLECTIVE SENSORS
PROCESSOR	32-BIT MOTOROLA 68332 @ 16.7 MHz
FLASH ROM	4 MB @ 70 NANO SECONDS
RAM	2 MB @ 70 NANO SECONDS
FREQUENCY INPUT	THREE (3) CHANNELS
	CHANNELS 1 & 2 ARE SINE/SQUARE WAVE CAPABLE
	CHANNEL 3 IS SQUARE WAVE ONLY
	SQUARE WAVE RANGE: 0-6000 HZ
	SINE WAVE RANGE: 0-1200 HZ
	SIGNAL > 40 Mv FOR SINE WAVE
	SIGNAL> 3v FOR SQUARE WAVE
MULTIVARIABLE	BUILT-IN ROSEMOUNT MULTIVARIABLE TRANSMITTER WITH DIRECT SPI DIGITAL
	CONNECTION. MAXIMUM UPDATE SPEED ONCE EVERY 109 MILLISECONDS.
	TEMPERATURE RANGE: - 200 thru 1200 F
	PRESSURE RANGE: 0 thru 3626 PSIG
	DP RANGE: 0 thru 250 inches OR
	0 thru 1000 inches
ANALOG INPUT	FOUR (4) INPUTS STANDARD
	EXPANDABLE UP TO NINE (9) ANALOG INPUTS
	OR SEVEN (7) WITH ADDITIONAL 3-WIRE RTD
ANALOG OUTPUT	ONE (1) 16-BITS OPTICALLY ISOLATED OUTPUT
	EXPANDABLE TO FOUR (4)
DIGITAL I/O	FOUR (4) DIGITAL INPUTS OR OUTPUTS
	DIGITAL OUTPUTS HAVE 0.25 AMPS RATING
SERIAL COMMUNICATION	TWO (2) RS-485 @ 19200 BAUDS VARIABLE
	ONE (1) RS-232 @ 9600 BAUDS VARIABLE
	ONE (1) PRINTER OUTPUT
COMMUNICATION PROTOCOL	MODBUS