The Series APM has a unique, rugged, NEMA 4X front panel design that makes it nearly impervious to typical applications. The weatherproof, UV resistant, large, dual line digital display allows for more information making it easier to read and even simpler to program. The intensity of the display can be adjusted allowing this meter to be utilized in dark rooms as well as outdoors, due to its sunlight readable display. It features up to eight visual alarm set points to trigger certain events and three function keys which can be programmed to provide direct menu access. With up to four relays available, the APM features latching, non-latching, sampling, pump alteration control, and a failsafe action. Offering programmable delay time, this meter prevents recognition of false maximum or minimum reading which may be caused by the start-up or unusual process events. The APM provides three security passwords that restrict modification of programmed settings. This unit has the ability to obtain non-linear input signals and linearize them with simple to use math functions such as square-root extractor, weirs and flumes exponential linearizer, horizontal round tank linearizer or general purpose 32-point linearizer. Unit accepts 0 to 20 mA, 4 to 20 mA, 0 to 5V, or ±10V inputs and requires 85-265 VAC or 12/24 VDC power supply. Choose from RS-232, RS-422/485 serial communication options or any available expansion modules, accessories, and enclosures.

The APM is a 1/8 DIN digital panel meter specifically designed for displaying flow rate and total from a flow meter with an analog output such as 4 to 20 mA or 0 to 10V. The APM is particularly well-suited for flow applications and can be programmed for a wide variety of display configurations. The upper line can display either flow rate, total or grand total, and the lower line can display either flow rate, total, grand total, or engineering units. It is possible to display flow rate and total at the same time, a very unique feature on a 1/8 DIN digital panel meters.

FEATURES
- Three levels of password protection
- Math functions for flow & round horizontal tanks
- 32-point linearization, square root or programmable exponent
- Multi-pump alternation control
- Rate displayed as units per second, minute, hour, or day
- Total, grand total or non-resettable grand total
- Two or four relays & isolated 4 to 20 mA output options
- External 4-relay & digital I/O expansion modules
- RS-232, RS-422/485 serial communication options

OPEN CHANNEL FLOW CAPABILITY
Series APM when utilized with an ultrasonic level transmitter, such as the Mercoid Series ULT, provides an economical way to measure open channel flow.

DIFFERENTIAL PRESSURE FLOW
The APM can display flow rate and total by extracting the square root from the 4 to 20 mA signal from a differential pressure transmitter, such as the Dwyer 629, that is being used with a flow element such as Dwyer orifice plate Series OP or TE. The user-selectable, low-flow cut-off feature gives a reading of zero when the rate is below a user selectable value.

PUMP CONTROL
With the two or four contact output option the APM can be used as a programmable pump controller when used with a Dwyer level transmitter. The unit also has programmable on and off points for up to four pumps, quadruplex pumping systems with alternation capability. When using the 4-relay model with the four external relay accessory, the APM can do 8 contacts for any combination of pump control and 8 programmable alarms.

CALL TO ORDER: U.S. Phone 219 879-8000 • U.K. Phone (+44) (0)1494-461707 • Australia Phone (+61) (0) 2 4272 2055

SPECIFICATIONS
Input: 0 to 20 mA, 4 to 20 mA, 0 to 5V, or ±10V inputs; A 85-265 VAC or 12/24 VDC.
Input Impedance: 50 to 100 Ohm.
Accuracy: ±0.03% of calibrated span ±1 count, square root & programmable exponent accuracy range: 10-100% of calibrated span.
Power Requirements: 85 to 265 VAC 50/60 Hz, 90 to 265 VDC, 20 W max or 12 to 24 VDC ±10%, 15 W max.
Display: Dual-line 6-digit display, 0.60 in and 0.46 in.
Decimal Points: Five positions, user selectable.
Temperature Limits: Operating: -40 to 149°F (-40 to 65°C); Storage: -40 to 185°F (-40 to 85°C).
Accuracy: ±0.03% of calibrated span ±1 count, square root & programmable exponent accuracy range: 10-100% of calibrated span.
Power Requirements: 85 to 265 VAC 50/60 Hz, 90 to 265 VDC, 20 W max or 12 to 24 VDC ±10%, 15 W max.
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