

METRA-SMART DATA SHEET

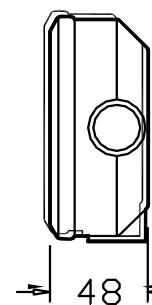
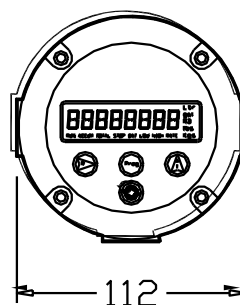
5 Digit rate indication
8 Digit total
8 digit accumulated total
IS option
Analogue output
2 flow alarms
Dual input A+B, A-B, A/B
Simple programming
10 point linearisation
Scaleable pulse output
IP67 (Nema 4X)
Clear 9mm LCD display
Remote/local reset
Long battery life
-20 to 80 °C Operation
Low battery indicator

Ideal for
Production lines
Fuel consumption



Metra-smart

The **Metra-smart** was specifically designed for computing & displaying rates and totals as well as giving an analogue output proportional to flow. It can also give two pre-set flow switch points and calculate differential rates from two input sensors. The instrument will display Re-settable Total, Accumulated Total and Flow Rate in engineering units as programmed by the user. Simple PIN protected flow chart programming with English prompts guide you through the entire programming routine greatly reducing the need to refer to the instruction manual. The pulse output can be selected to act as an input pulse repeater serving as a signal conditioner module or may be programmed as a scaled pulse output for remote metering. There is a ten point linearisation for non-linear sensors. The analogue output and flow switch functions requires an external 8 - 24Vdc power supply. The robust housing is purposely designed to suit harsh indoor & outdoor industrial and marine environments. It is weatherproof to IP67 (Nema 4X) standards, UV resistant and uses glass reinforced nylon mouldings with stainless steel screws & viton O-ring.



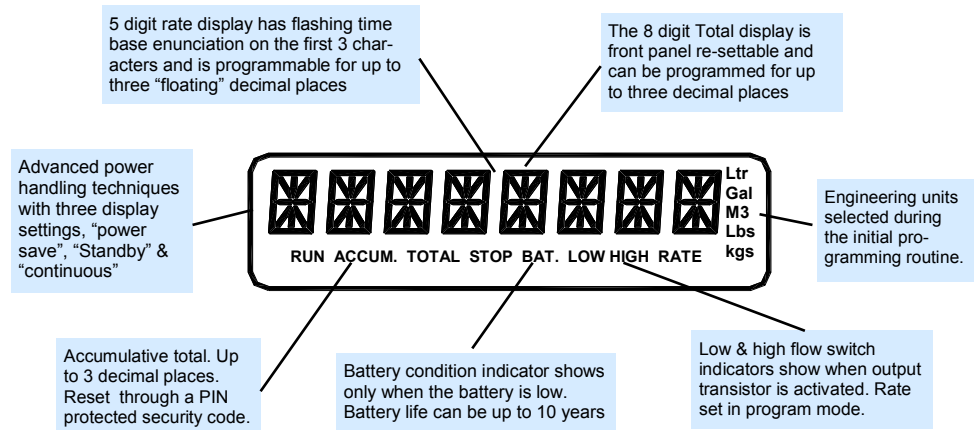
Specification

Display	Custom multifunction LCD
Signal inputs	Universal pulse-frequency input
Signal output	4-20 mA
Flow set points	High & low flow switches
Power	Battery and/or external 8-24Vdc (Up to 10 year battery life)
Pulse output	Scalable
Enclosure	IP66 (NEMA 4X) .
K Factor range	0.001 to 9,999,999.999
Rate time base	Seconds, minutes, hours or day
Dual input	A+B, A-B or A/B

Mat'ls of construction

UV resistant glass reinforced nylon case, polycarbonate cover, viton seals and stainless steel screws.

The drawing below shows all of the segments on the LCD display illuminated at approximately full size. This occurs for five seconds whenever the program mode is entered.



The LCD 8 digit alpha-numeric display has 9mm high main characters with engineering units & mode indicators plus a low battery indicator. Displays rate, total and accumulative total all with independently programmable decimal point positions. The programming prompts scroll in plain English for ease of use. The inputs are compatible with reed switch, Hall effect detector, magnetic coil (20mV P-P), Voltage pulse & Namur proximity detectors. Maximum input frequency 500 to 5Khz depending on sensor type, minimum 0Hz, (0.1Hz when used on internal power and for rate indication). A loop power of 4 to 20mA can be spanned anywhere within the flow range, 12~24 V dc into 750Ω loop load. Accuracy is ±0.1% FSD. A test output is activated during programming for a system function check. The two set points are NPN/PNP pulse outputs with selectable FET transistors programmable as high and low set points with dead bands. Maximum power is 100mA at 24V dc. Internal 3.6V Ultra lithium battery is used for internal battery powered use. There is an additional scaleable pulse output selectable NPN or PNP it has a maximum frequency of 100 Hz. @ 1A maximum. The housing is high impact glass reinforced nylon with a self drill cable gland in the base or rear. Operating temperature range -20°C to +80°C. When the unit is measuring flow rate the first 2 or 3 digits show the time base i.e. SEC, MIN, Hr or DAY.

Order codes

Metra-smart	-	380-101
Wall mounting bracket	-	380-103
Intrinsically safe Metra-smart	-	380-101 IS

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