

EB10 (Two-Stage Batch Controller)	F030 (Single-Stage Batch Controller)
	F030-P-HE(or HTR01)-OT-PB-PD-XX-ZB-1TR
	1431161 Meter Mount; 1431162 Field Mount

GENERAL		
DISPLAY		
Type	Numeric and Alphanumeric LCD, UV-resistant	High intensity reflective numeric and alphanumeric LCD, UV resistant.
Digits	Eight 9mm (0.35") high and five digit with second line subscript text.	Seven 17mm (0.67") and eleven 8mm (0.31").
ENCLOSURES		
General	High Impact GRN (Glass reinforced nylon) enclosure with Polycarbonate display protector.	GRP (Glassfibre Reinforced Polyamide) enclosure with Polycarbonate window, silicone and EPDM gaskets.
Dimension	125mm diameter (5") X 61mm deep (2.5") X 400g (0.9lb).	130 X 120 X 75mm (5.10" X 4.72" X 2.95") - LXHXD
Classification	IP66/67	IP67/NEMA4X
GRN/GRP Enclosures	3 x M20 or 1/2" NPT female conduit entries	Cable entry: 2x 16mm (0.63") - 1x 20mm (0.78")
OPERATING TEMPERATURE		
Operational	-20°C to 80°C (-4°F to +176°F).	-40°C to 80°C (-40°F to 128°F)
POWER REQUIREMENTS		
Battery	3.6Vdc lithium battery annunciates a power loss & preserves batch settings & progress at time of power loss.	PB: Lithium battery - lifetime depends upon settings - up to 5 years
External Power	Regulated 12-24Vdc x 50mA (add switched current)	PD: 16 - 30 Vdc. Power consumption max. 1 Watt.
SENSOR EXCITATION		
	N/A	PB: 3.2V DC for pulse signals and 1.2V DC for coil pick-up.
	N/A	PD: for pulse signals: 1.2 / 3.2 / 8.2V DC - max. 5mA@8.2V DC. For analog signals, the sensor supply voltage is according to the power supply voltage connected.
	N/A	
DATA PROTECTION		
Type	All programmed data and batch status are EEPROM protected in the event of a power failure.	EEPROM backup of all setting. Backup of running totals every minute. Data retention at least 10 years.
Pass Code	User selectable 4 digit PIN number set-up protection.	Configuration settings can be pass code protected.
FEATURES		
Count Direction	Count UP or count DOWN selectable at program level.	Count UP and Count DOWN function available.
Overrun Correction	Automatic Overrun Compensation available at programming level.	Automatic self-learning overrun correction.
Batch Limiting	Batch size limits can be set at programming level.	N/A
Run Inhibit Input	Run key can be inhibited from an external source.	N/A
Network I/O:	A two wire loop system can link up 9 individual batch controllers with one common flowmeter to provide an economical multi source/dispense interlocked batching system.	N/A
INPUTS		
FLOWMETER		
	Universal pulse/frequency input compatible with Reed Switch, Hall Effect, Namur proximity detectors, Pulse wire, voltage, current & Coil (15mV P-P min)	P: Coil/Sine wave (minimum 20mV-P or 80mV-P - sensitivity selectable, NPN/PNP, open collector, reed-switch, Namur, active pulse signals.
Frequency	Max input frequency 10 kHz.	Minimum 0 Hz - maximum 7 kHz for total flowrate. Max frequency depends on signal type and internal low-pass filter.
K-Factor	0.001-9999999.999 with a floating decimal point during K-factor entry.	0.000010-9,999,999 with variable decimal position.
Low-pass filter	N/A	Available for all pulse signals.
OUTPUT		
CONTROL OUTPUT		
Function	Batch process two-stage control output.	Batch process one-stage control output.
Type	Two independent NPN open collectors, 1A dc resistive load max. May be link configured for PNP to drive compatible logic circuits.	OT: One passive transistor output (NPN)- not isolated. Load max. 50V DC-300mA.
Alarm/pulse output	NPN-PNP solid state alarm or non-scaleable pulse output @ terminal 7, (5000hz max.), 1A maximum drive capability.	N/A
Batch status output:	NPN open collector, 0.1A dc resistive load max	N/A