214i BATCH CONTROLLER

The 214i will batch a preset quantity of liquid in Intrinsically Safe areas.

Easy to use

Quick and easy to set up Simply press the run button to batch Displays batch quantity Stores an accumulated total Preset to your requirements

Simple to install

Minimal cabling required Mounts on the pipe, wall or flowmeter

Accurately batches liquids **√**

Save time Reduce waste and costs Improve product quality One or two stage valve control

Versatile

Works with most flowmeters Watertight front

Application

This instrument is used in hazardous areas to automatically batch a precise quantity of liquid. It accepts pulsed frequency signals such as those generated by turbine, positive displacement or pelton wheel flowmeters.

Operation

To start a batch you simply press the run button. It will control pumps and valves to deliver your required volume of liquid. One display will show you the batch count whilst the other will show the preset quantity.

Setup

The setup is easy using the keypad and it can be supplied preset for your application.

The displays can be set for any units e.g. litres or gallons. During setup the pulses per litre, decimal point positions and valve delays are entered.

Installation

The 214i requires a DC power supply and batteries provide back up to store the settings.

It is mounted directly on to your flowmeter, wall or pipe.

The two transistor outputs can be used to control valves and pumps. This allows for one or two stage

batching with slow start up and/or slow shutdown of the batching process. The first output will energise at the start of the batch and de-energise when the batch is complete. The second output can be set to energise at a fixed time after the start, and to de-energise at a fixed quantity before the end of the batch.

Intrinsically Safe Installation

The 214i is certified for use in Class 1 Zone 1 hazardous areas with approved sensors and solenoids such as the Apollo IS coil and Namur sensor.

Construction

The instrument is housed in a polycarbonate enclosure that is weatherproof. Cables are inserted through waterproof cable glands.

APOLLO

214i Batch Controller

Specifications			
Display:	LCD which is continuously powered		
Batch total:	7 digits 10mm high		
	Resettable from the front panel		
Accumulated total:	otal: Displayed when the ACCUM TOT button		
	is pressed		
Preset:	4 digits 8.5 mm high		
K-factor:	The pulses per unit of measurement (eg		
	pulses/litre) is programmable in the		
	range 0.2 to 29,999		
Decimal points:	The decimal point positions are		
-	adjustable		
Frequency range:	0.25Hz to 5 KHz		
Signal type:	Selectable for sinewave (40mV peak		
	to peak min), open collector, reed switch or pulse.		
DC power input:	12-28 V		
	12-20 V		
Battery backup			
Туре:	Two lithium battery packs		
Battery function:	The backup batteries will power the		
	instrument for up to 5 years if no DC		
	power is provided. The batteries will not power a sensor or solenoids.		
Outputs			
Outputs Outputs:	Two open collector outputs suitable for		
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Outputs: Switching power:	Two open collector outputs suitable for driving DC solenoids or external relays. 200 mA 30 VDC maximum		
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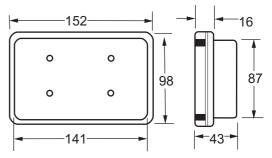
Physical

-20°C to 60°C	
Universal mounting bracket	
supplied for mounting on a	
wall or panel.	
1.Pipe mounting kit available	
to fix the unit on to a pipe.	
2. Adapter for mounting the	
instrument on to flowmeters.	
Sealed to IP67	
By cable glands.	

Hazardous Area Approval

CENELEC:	EEx ia IIB T4			
Maximum temp:	60 °C			
The maximum input parameters from certified				
coils are:				
U _i = 24V	P _i = 320mW	l _i = 20 mA		
The maximum allowed capacitance and				
inductance including any cabling is:				
$C_{(ext)} = 60 F L$	_{-(ext)} = 1.5H			
The maximum voltage and current produced by				
the 214i is:				
U _o = 0.0 V	l _o = 9.0 mA			

Dimensions



All dimensions in mm.

