Features

- Single Channel Pulse Counting Batch Flow Indicator/Controller
- Calibration and Control Settings Stored in Permanent Memory
- Automatic Control via relay outputs
- Automatic In-Flight Compensation
- Two Stage Cut-Off Control
- Start, Stop and Reset digital inputs from conventional push-button switches

Description

The PR530 has one pulse input which can accommodate either volt-free contact or open collector NPN type flow meter signals.
Relay outputs provide various flow control functions as follows:

Manual Operation - Output follows the corresponding run pushbutton input.

Automatic Operation - Output remains on following a start signal until flow total reaches a pre-set target.

Front panel access to the control and calibration data is pass-number protected.
One or more PR530's may be connected to the Practicon Unity Controller via the Unity Fieldbus and subsequently to a computer.

Technical Data

Model No:
Model PR530U Unity Fieldbus

Power Supply:
Universal fused power supply 85-264V AC or 9-36V DC. Internal mains filter fitted.
Power consumption 10VA.

Flow Meter Supply:
12V DC @ 15 mA max.
Short circuit protected.

Flow Meter Input:
3 wire NPN or volt free contact
0 - 500 Hz range.

Display:
14mm high character green LED.
Selectable update rate.

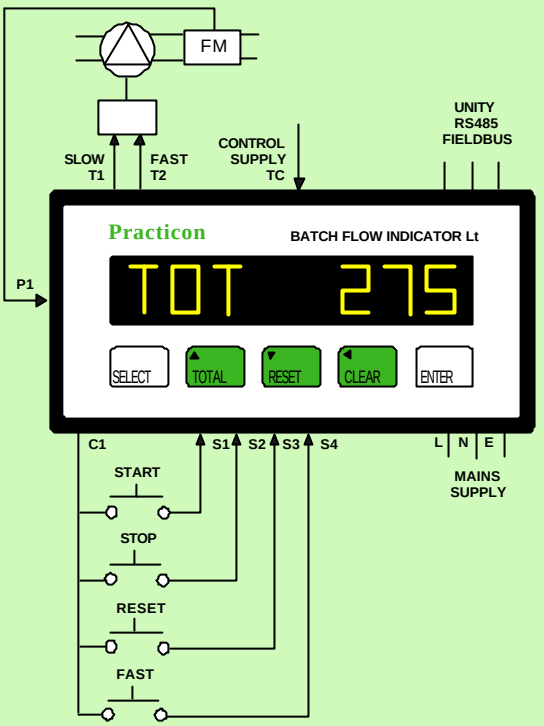
Local Pushbutton Inputs:
Volt free contact inputs.
Internal 12v DC @ 3mA.

Relay Outputs:
240V AC or 30V DC 5A rated.

Enclosure:
Panel mounting DIN case with IP65 sealed front panel 144mm wide x 72mm high x 132mm deep. Cut-out 138mm wide x 68mm high.

Environment:
Operate 0-50°C, 20-80% RH non-condensing. Storage - 40 to 80°C.

Flow Control Application



Manual Operation

When not programmed for automatic operation the outputs may be driven on manually by operating the corresponding pushbutton input. In this mode the unit can be used as a simple totaliser.

Automatic Operation

Having set the required target value, operating the start pushbutton input will cause the output to come on until the target is reached. In-flight adjustments are made automatically to ensure optimum accuracy.

When linked to a Unity Range system it may operate in a mode whereby the batch quantities are automatically dispensed from target and other control data downloaded from a Unity Controller and the actual total quantities recorded by the Controller.