



## Series Introduction

The 100 series of secondary instruments have been designed as a rugged and versatile range offering the user anything from simple flowrate indication to batching, ratio metering and controlling applications. The indicator can be head, field or panel mounted and the standard aluminium case design is to IP67. A large LCD dual display shows clear text and measuring units. The units are battery powered as standard and the easily replaced lithium battery has an average life of seven years. A scaleable pulse and analogue output is available as standard. The units are very easy to program and the whole range have been designed with the same clear logical menu structure.

- 110-P Flowrate/Totaliser. Scaleable pulse output + 4-20 mA output
- 111-P Dual input flowrate/Totaliser
- 112-P Flowrate/Totaliser with linearisation. Scaleable pulse + 4-20 mA output
- 113-P Flowrate Totaliser High/Low alarms or pulse + 4-20 mA output
- 114-P Ratio indicator high/Low alarms + 4-20 mA output
- 115-P Flowrate/Totaliser with quadrature input scaleable pulse + 4-20 mA output
- 116-P Differential/sum indicator scaleable pulse + 4-20 mA output
- 120-P Flowrate controller PI (D) with 4-20 mA + pulse output
- 124-P Ratio controller PI (D) with 4-20 mA + high/low alarm output
- 126-P Flow computer with temperature and pressure compensation
- 130-P Batch controller two transistor outputs 2 stage or pulse
- 131-P Batch controller with flowrate indication 4-20 mA + 2-stage or pulse output
- 133-P Dispenser/batcher mimic with two transistor outputs

Note: STANDARD configuration for most 100-Series models: Internal Battery & 8-28V DC powered + 4-20mA Output with die-cast, powder coated aluminium field enclosure -IP67 (further options below)

### OPTIONS 100-SERIES

#### Option - communication:

- CB 2-wire RS232 Modbus protocol
- CH 2-wire RS485 Modbus protocol
- CI 4-wire RS485 Modbus protocol

#### Option - case design:

- HB aluminium panel-mount housing IP65 / Nema 4
- HD ABS wall-mount housing IP65 / Nema 4

#### Option - inputs:

- IB Remote input (reset total)
- IC Remote control of the three function keys

#### Option - power supply

- PA see PB
- PB Lithium battery (long life)
- PF 12-24V AC/DC + DC sensor supply + electro-mechanical relays
- PL input loop powered 4-20mA
- PM 80-240V AC + DC sensor supply + electro-mechanical relays
- PN 80-240V AC + sensor supply + relays + LED back-light

#### Option - hazardous area:

- XI EExia IIB T4/EEExia IIC T4 - Cenelec approved
- XD EExd IIB T5 - Explosion proof housing with one function key - 1x M20 cable entries
- XF EExd IIB T5 - Explosion proof housing + all three function keys - 3x M20 cable entries
- ZV PRTD range -200 / +800 °C

