nixon
F L O W M E T E R S

100 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 + 4-2G 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/EExia 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