

PROCESS INDICATORS

Selection Guide










COST EFFECTIVE FAMILIES

(Small Size, Low Profile)

ADVANCED FEATURES FAMILIES

(RS485 Modbus, Timed Alarm, Custom Linearization, Analog Retransmission, Digital Input, Special Functions, Square Root)

	 LoopView-i	 N1040i	 N1540	 N1500G	 N1500	 N1500-FT	 N1500-LC
Indicator Type	Loop Current	Universal	Universal	Universal	Universal	Flow	Load Cell
Display	4-Digit LED display, 16 mm	Dual 4-Digit LED display, 10 mm upper and 8 mm lower	5-Digit LED display, 16 mm	5-Digit LED display, 56 mm	6-Digit LED display, 13 mm	Dual 6-Digit LED display, 13 mm	6-Digit LED display, 13 mm
Input Type	4-20 mA	J, K, T, N, R, S, B, E, Pt100, 0-20 mA, 4-20 mA, 0-50 mV, 0-5 V and 0-10 V	J, K, T, E, N, R, S, B, Pt100, 0-50 mV, 0-5 V, 0-10 V, 0-20 mA and 4-20 mA	J, K, T, E, N, R, S, B; Pt100, 4-20 mA, 0-50 mV and 0-5 Vdc 4-20 mA, 0-50 mV, 0-5 V, 0-10 V	J, K, T, E, N, R, S, B, Pt100, 0-20 mA, 4-20 mA, 0-50 mV, 0-10 V, 0-5 V	4-20 mA, NPN, PNP, dry contact or coil signal	4-20 mA, 0-20 mA, 0-50 mV, 0-20 mV and -20 to 20 mV
Accuracy	mA: 0.5% of span	J, K, T, E: 0.25% ±1°C N, R, S, B: 0.25% ±3°C Pt100: 0.20% Voltage/Current: 0.2%	J, K, T, E: 0.25% ±1°C N, R, S, B: 0.25% ±3°C Pt100: 0.20% Voltage/Current: 0.2%	J, K, T, N: 0.25% ±1°C E, R, S, B: 0.25% ±3°C Pt100: 0.20% Voltage/Current: 0.2%	J, K, T, E, B, N: 0.25% ±1°C R, S, B: 0.25% ±3°C Pt100: 0.20% Voltage/Current: 0.2%	4-20 mA: ±0.2% of full scale Pulse: ±30 ppm @25 °C Magnetic pickup: ±0.1% @25 °C	0.2% of span
Input Resolution Levels	65535	32767	32767	19500	128000	32767	128000Cell
Indication Resolution Levels	12000	12000	32000	12000	62000		62000
Programmable Range	-1999 to 9999	-1999 to 9999	-2000 to 30000	-1999 to 9999	-31000 to 31000	Fully customized scale factors	-31000 to 31000
Input Sample Rate		55 sps	55 sps	5 sps	15 sps for mV/V/mA 7.5 sps for mV 5 sps for Pt100 & T/C		15 sps
Adjustable Digital Filter	✓	✓	✓	✓	✓	Yes, for 4-20 mA input	✓
Custom linearization			Up to 10 segments	Up to 20 segments	Up to 30 segments	Up to 30 segments	Up to 30 segments
Detection of sensor break		✓	✓	✓	✓	✓	✓
Alarm Number		2	2	2	4	2 Up to 4 optional	4
Alarm Types		Low, High, Differential Low, Differential High, Out of Range, Within Range, Sensor Break	Low, High, Differential Low, Differential High, Out of Range, Within Range, Sensor Break	Low, High, Differential Low, Differential High, Out of Range, Within Range, Sensor Break	Low, High, Differential Low, Differential High, Out of Range, Within Range, Sensor Break	Low, High, Sensor Break, Feeder	Low, High, Differential Low, Differential High, Out of Range, Within Range, Sensor Break
Alarm Timing				Normal, Delayed, Pulse and Oscillator	Normal, Delayed, Pulse and Oscillator	Normal, Delayed, Pulse and Oscillator	Normal, Delayed, Pulse and Oscillator
Output Alarm Relay		One 3 A / 250 Vac SPDT One 1.5 A / 240 Vac SPST	Two 3 A / 250 Vac SPST	Two 3 A / 250 Vac SPST	Two 3 A / 250 Vac SPDT Two optional SPST	Two 3 A / 250 Vac SPDT Two optional SPST	Two 3 A / 250 Vac SPDT Two optional SPST
Special Functions			Maximum and Minimum	Maximum and Minimum	Maximum and Minimum	Maximum and Minimum	Maximum and Minimum
Digital Input Functions				Hold, Peak Hold, Clear Max/Min, Block Alarm, Tare	Hold, Peak Hold, Clear Max/Min	Totalization Reset, Hold, Clear Max/Min, Feeder (Input or F key)	Hold, Peak Hold, Clear Max/Min, Automatic Zero
Analog Retransmission		Optional PV 0-20 mA / 4-20 mA		PV 0-20 mA / 4-20 mA	PV 0-20 mA / 4-20 mA	Flow Rate 0-20 mA / 4-20 mA	PV 0-20 mA / 4-20 mA
Pulse Retransmission						Flow Rate in Volumetric Pulse or Frequency Pulse	
Square Root				✓	✓	✓	
Configuration Protection	By password	By password	By password	By lock/unlock key	By lock/unlock key	By password	By lock/unlock key
Power Supply Output		Optional 24 Vdc ±10%	24 Vdc ±10%	24 Vdc ±10%	24 Vdc ±10%	24 Vdc ±10%	10 Vdc ±0.5% 5 Vdc Optional
Communications Interfaces		USB (Mini-B type) Optional RS485 Modbus	USB (Mini-B type) Optional RS485 Modbus	Optional RS485 Modbus	Optional RS485 Modbus	USB (Mini-B type) Optional RS485 Modbus	Optional RS485 Modbus
Certifications		CE	CE, UL		CE	CE	CE
Frontal/Back Protection Rating	IP65/-	IP65/IP30	IP65	IP30	IP65/IP30	IP65/IP30	IP65/IP30
Operating Conditions	-40 to 85 °C	0 to 50 °C 80% up to 30 °C	0 to 50 °C 80% up to 30 °C	5 to 50 °C 80% up to 30 °C	5 to 50 °C 80% up to 30 °C	5 to 50 °C 80% up to 30 °C	5 to 50 °C 80% up to 30 °C
Power Supply	4-20 mA Loop Powered	100 to 240 Vac/Vdc or 12 to 24 Vdc (Optional)	100 to 240 Vac/Vdc or 12 to 24 Vdc (Optional)	100 to 240 Vac/Vdc or 12 to 24 Vdc (Optional)	100 to 240 Vac/Vdc or 12 to 24 Vdc (Optional)	100 to 240 Vac/Vdc or 12 to 24 Vdc (Optional)	100 to 240 Vac/Vdc or 12 to 24 Vdc (Optional)
Panel Format	EN175301-803 (old DIN 43650)	48 x 48 DIN 1/16	96 x 48 DIN 1/8	Panel/Wall Mount 310 x 110 x 37 mm	96 x 48 DIN 1/8	96 x 48 DIN 1/8	96 x 48 DIN 1/8