

IDE20 SERIES



APPLICATIONS

- Process indication
- Tank level indication
- Flow rate calculation
- On/off, pump alternation control
- Compressor controls
- Safety or shutdown alarms
- Process signal retransmission

- 1/8 DIN loop-powered process meter with NEMA 4X, IP65 IP rating
- Single 4-20 mA input displayed with $\pm 0.02\%$ of span accuracy
- 32-point linearization, square root extraction and programmable exponent function
- Loop-powered backlight with red backlight for alarm conditions
- Included PC USB programming configuration software
- 2 open collector outputs standard
- 2 optional loop-powered solid state relays
- Optional isolated 4-20 mA analog output
- Optional 20-segment bargraph with numeric percent indication
- General location and hazardous location ratings available
- CE compliant to suppress RFI, EMI and ESD
- Hazardous location and cULus rated

SPECIFICATIONS*

Input signals	4 mA to 20 mA
Backlight	Powered by 4 mA to 20 mA loop; intensity varies with signal level
Process display	Top: 5 digits, 0.7" (17.8 mm) and Bottom: 8 digits, 0.4" (10.2 mm)
Key pad	4 front panel buttons
Hazardous location ratings	See user manual
Electrical connection	Screw terminals at back of case
Accuracy	$\pm 0.02\%$ of span ± 1 count
Humidity	0 to 90% non-condensing
Altitude	Up to 2,000 meters
Update rate	Ambient $> -10^{\circ}\text{C}$: 1 Update/Second Ambient $= -20^{\circ}\text{C}$: 1 Update/ 2 Second From -20°C to -40°C : The update rate slows down 1 second for every -2°C (e.g. at -24°C , 1 update/4 seconds)
Temperature ranges	Operating General location: -40°F to 167°F (-40°C to 75°C) Hazardous location: -40°F to 158°F (-40°C to 70°C) Storage -40°F to 185°F (-40°C to 85°C)
Electromagnetic rating	See user manual for details
Environmental rating	IP65, NEMA 4X (front panel only)
Filtering	1 to 16 seconds, selectable
Min/Max reading	Captures and stores min/max measurement
Linearization	2 to 32 points, selectable
Voltage drop	Without backlight: 1.5 Vdc max With backlight: 4.5 Vdc max
Input overload	Over current protection to 1 A max Over voltage protection to 30 Vdc max
Normal mode rejection	> 64 dB at 50/60 Hz
Temperature drift	25 PPM/ $^{\circ}\text{C}$ from -40°C to 75°C ambient
Weight	8.7 oz (247 g) with option board
Option cards	2 Open Collectors 2 Open Collectors & 2 Solid-State Relays 2 Open Collectors & 4-20 mA output 2 Open Collectors, 2 Solid-State Relays & 4-20 mA output

* Additional specifications, see user manual

WARNING: This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

ORDERING INFORMATION			
SERIES	IDE20		
LOCATION RATINGS	G General location rated	H Hazardous location rated	
DISPLAY TYPE	D Decimal Display	DB Decimal display with bar graph	
	HB Height Display with bar graph		
OPTION CARDS	0 2 Open Collectors	2 2 Open Collectors & 4-20 mA output	
	1 2 Open Collectors & 2 Solid-state Relays	3 2 Open Collectors, 2 Solid-state Relays, & 4-20 mA output	

Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE

Series IDE20 Series
 Location rating General location rated
 Display type Decimal display
 Option card 2 open collectors & 2 solid-state relays

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