

## 2200 SERIES



### APPLICATIONS

- Pump control and monitoring
- Liquid level measurement
- Heating and cooling
- Force measurement
- Cycle counting
- Flow rate measurement

- Accepts a wide variety of input signals including thermocouples or RTDs, current, voltage, resistance and process signals
- Dual display with tri-color and variable intensity digits
- Universal AC/DC power input and 24 Vdc sensor excitation
- Built-in USB port for configuring with a computer
- Meter update rate up to 160/second
- Plug-in option cards available for field upgrading
- Interface software available on request

### SPECIFICATIONS

Input signals	4 mA to 20 mA, 0 Vdc to 10 Vdc (optional RTD and thermocouple)	
Sensor excitation	Built-in 24 Vdc	
Process display	Upper	6 digit, 0.71", tri-color LED (red, green, orange)
	Lower	9 digit, 0.35", green LED
Key pad	2 programmable function keys, 4 total	
Power requirement	AC input	40 Vac to 250 Vac, 50/60 Hz, 20 VA
	DC input	21.6 Vdc to 250 Vdc, 8 W
Electrical connection	Screw terminals at back of case	
	Built-in USB port for configuring with a computer	
Memory	FRAM	
Accuracy	<0.03% of full scale	64 °F to 82 °F (18 °C to 28 °C)
	<0.12% of full scale	32 °F to 122 °F (0 °C to 50 °C)
Humidity	<85%, non-condensing	
Vibration	5-150 Hz, 2 g	
Shock	25 g	
Normal rejection mode	60 dB 50/60 Hz	
Altitude	Up to 2,000 meters	
Update rate	160/sec	
Temperature ranges	Operating	32 °F to 122 °F (0 °C to 50 °C)
	Effect	≤ 0.1% of full scale/18 °F (10 °C)
	Storage	-40 °F to 140 °F (-40 °C to 60 °C)
Electromagnetic rating	CE compliant to EMC norm EN 61326-1	
	RFI, EMI and ESD protection	
Environmental rating	NEMA 4X, IP65 (front of display only)	
Filtering	0 seconds to 25 seconds, selectable	
Min/Max reading	Captures and stores min/max measurement	
User inputs	2 programmable, 30 Vdc max. continuous	
Totalizer	Time base	Second, minute, hour or day
	Batch	Can accumulate from user input
Linearization	2 to 16 points, selectable	
Weight	8 oz.	
Option cards	Serial communication (RS232 or RS485)	
	DeviceNet communication	
	MODBUS communication (RS485 RTU and ASCII MODBUS)	
	Profibus communication	
	Analog output (0-20 mA, 4-20 mA or 0-10 Vdc)	
	Dual or Quad Relay (NPN or PNP type)	
	USB programming	

ORDERING INFORMATION			
SERIES	2200		
INPUT SIGNALS	1	4 mA to 20 mA	6 1 Vdc to 11 Vdc
	2	0 Vdc to 5 Vdc	J Thermocouple Type J
	4	1 Vdc to 6 Vdc	K Thermocouple Type K
	5	0 Vdc to 10 Vdc	T Thermocouple Type T
			E Thermocouple Type E
			PT1 RTD PT100
POWER REQUIREMENTS	4 40 Vac to 250 Vac/21.6 Vdc to 250 Vdc		
OPTION CARDS	0	No option card	3 Quad NPN-OC option card
	1	Dual relay option card	4 Quad PNP-OC option card
	2	Quad relay option card	5 Analog output option card
			6 RS 232-C Serial communications option card
			7 RS 485 Serial communications option card
OPTION	ENC NEMA 4 Enclosure		

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

EXAMPLE

