

Digital Indicator Solutions



Attachable Loop-Powered
Compact Loop-Powered
Compact Smart System
Smart System "Intelligent"
Dual Display

Options & Accessories



At NOSHOK, we pride ourselves on being innovators in the industry by continually offering the latest technology and measurement solutions, and providing the best customer support in the marketplace.


Established in 1967, NOSHOK was one of the first companies to offer liquid filled pressure gauges. We also took a bold step by backing our quality gauges with an extended 3-year warranty. That unwavering standard of quality has endured for over 45 years, and as we have expanded our product offering we continue to provide industry-leading warranties. NOSHOK also leads the industry as one of the first companies to offer corrosion-resistant zinc nickel plating standard on our carbon steel valves.

We have the capacity to put together special requirements which are so often hard to find. If you do not find what you need in this catalog, chances are we can still put a solution together.

NOSHOK is committed to providing excellence on every level. Thank you for choosing NOSHOK products.



Jeff N. Scott
President



NOSHOK Corporate Headquarters
Your Single Source Instrumentation Company

NOSHOK is a member and actively supports:



NOSHOK is an ISO 9001:2008 registered company.

WARRANTY INFORMATION

NOSHOK's One Year Warranty applies to our 1800 Series Digital Indicators. NOSHOK's Two Year Warranty applies to our 1900, 1950, 2000/2100 and 2200 Series Digital Indicators and accessories. *NOSHOK guarantees all products* to be free from defects in material and workmanship, to remain within catalogued accuracy specifications, and to operate within the catalogued performance specifications. These products must be operated within the catalogued environmental and application parameters. Determination of failure will be made by NOSHOK, Inc.'s equipment and personnel or a certified test facility specializing in this type of evaluation.

T A B L E O F C O N T E N T S



DIGITAL INDICATORS

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In keeping with and for purpose of product and/or manufacturing process improvements, NOSHOK, Inc. reserves the right to make design changes without prior notice.

1800 SERIES



Unit with relay option.



- High accuracy 4 mA to 20 mA loop-powered indicators for NOSHOK 300, 600, 615, 616 and 800 Series transmitters
- Can be fitted to NOSHOK pressure transmitters utilizing a 4 mA to 20 mA output signal and the Hirschmann (DIN 43650A) connector
- Easily inserted between the transmitter body and the connector
- Programmable to display a range of -1999 to 9999; may be tilted for better viewing
- User selectable digital filtering improves readability in rapidly varying pressure applications
- All parameters are stored in non-volatile memory so that reprogramming is not necessary in the event of a power failure

APPLICATIONS

- Hydraulic and pneumatic systems
- Pumps and compressors
- Test equipment and systems
- Industrial machinery and machine tools
- HVAC systems
- Power generation
- Water and wastewater
- Stamping and forming presses

SPECIFICATIONS

| | | |
|------------------------|--|--|
| Input signals | 4 mA to 20 mA (optional 0 Vdc to 10 Vdc) | |
| Process display | 4 digit, 0.4" liquid crystal display (-1999 to 9999) | |
| Key pad | 3 programmable function keys for relay option only | |
| Power requirement | Loop powered by sensors excitation | |
| | Power consumption | 40 mA max. |
| | Voltage drop | 3 Vdc |
| Electrical connection | Hirschmann, DIN EN 175301 803 form A | |
| Memory | EEPROM | |
| Accuracy | <0.2% of full scale, ± 1 digit | |
| Humidity | <90%, non-condensing | |
| Update rate | 200 msec | |
| Temperature ranges | Operating | 32 °F to 122 °F (0 °C to 50 °C) |
| | Effect | $\leq 0.1\%$ of full scale/18 °F (10 °C) |
| | Storage | -22 °F to 176 °F (-30 °C to 80 °C) |
| Electromagnetic rating | CE compliant to EMC norm EN 61326-1 RFI, EMI and ESD protection | |
| Environmental rating | NEMA 4, 4X, IP65 (front of display only) | |
| Filtering | 0.2 seconds to 1.5 seconds, selectable | |
| Relay option | 1 transistor, n-switching | |
| Linearization | 2 point | |
| Weight | 3 oz. | |



To install, remove the DIN 43650A plug and insert indicator on top of transducer and reinstall the plug. This indicator can be used with NOSHOK and some competitive transmitters with 2-wire 4 mA to 20 mA output, Hirschmann connector with the same pin configuration. (Pin 1 + supply, pin 2 + output)

Shown with 800 Series Temperature Transmitter

Shown with 300 Series Pressure Transmitter

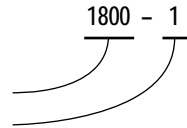
| ORDERING INFORMATION | |
|----------------------|--|
| SERIES | 1800 |
| OPTIONS | 0 No options 1 With relay |

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

Note: Indicate display range on order eg. 0-1,000 for 4 mA to 20 mA

EXAMPLE

Series1800 Series
 Option.....With relay



1900 SERIES



- Provides compact digital display of any desired unit of pressure, temperature, level, force, or flow measurement
- Dual range 4 mA to 20 mA or 10 mA to 50 mA
- 3-1/2 digit, 0.6" high display with a span range of 0 to 1999
- Positive image reflective LCD is standard; red or yellow/green back-lit versions optional
- Span and zero offset capabilities
- Negative pressure and overpressure indication
- Selectable decimal point position
- Compact, lightweight, impact-resistant NEMA 4X, IP65 housing with sealed front bezel
- Fits DIN standard cut-out 2.68" (68 mm) x 1.30" (33 mm)
- CE compliant to suppress RFI, EMI, and ESD

APPLICATIONS

Suitable for a wide variety of applications requiring pressure, flow, level, force and temperature measurement, including:

- Process indication
- On/off pump controls
- Compressor controls
- Safety or shutdown alarms

SPECIFICATIONS

| | | |
|------------------------|---|--|
| Input signals | 4 mA to 20 mA | |
| Process display | 3½ digit, 0.6" liquid crystal display (-1999 to 1999) | |
| Power requirement | 1900C-1/1900C-2 | Loop powered by sensors excitation |
| | Power consumption | 160 Ω max. @ 20 mA 65 Ω max. @ 50 mA |
| | Voltage drop | 3.2 Vdc |
| | 1900C-3/1900C-4 | Main display loop powered by sensors excitation w/ PS3 power supply for back light (85-250 VAC required) |
| Power consumption | 160 Ω max. @ 20 mA | |
| | 65 Ω max. @ 50 mA | |
| | Voltage drop | 4 Vdc |
| Electrical connection | Screw terminals at back of case | |
| Memory | EEPROM | |
| Accuracy | ±(0.1% + 1 digit) | |
| Humidity | 85% max., non-condensing | |
| Vibration | 5-500 Hz, 5g | |
| Shock | 30 g | |
| Normal rejection mode | 60 dB 50/60 Hz | |
| Altitude | Up to 2,000 meters | |
| Update rate | 400 msec | |
| Temperature ranges | Operating | 32 °F to 140 °F (0 °C to 60 °C) |
| | Effect | 100 ppm/°C |
| | Storage | -40 °F to 176 °F (-40 °C to 80 °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) | |
| Linearization | 2 point | |
| Weight | 3.3 oz. | |

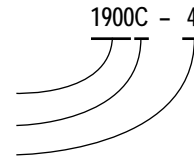
Note: See page 14-15 for more information on backlights & displays, power supplies, and option cards. See page 16 for 1900C wiring diagram, including the backlight feature.

| ORDERING INFORMATION | | |
|----------------------|---|---|
| SERIES | 1900 | |
| INPUT SIGNALS | C Current | |
| INDICATIONS | 1 Positive image reflective LCD | 3 Yellow/green backlight transfective LCD with backlight power supply |
| | 2 Positive image reflective LCD backlight | 4 Red backlight transfective LCD with backlight power supply |

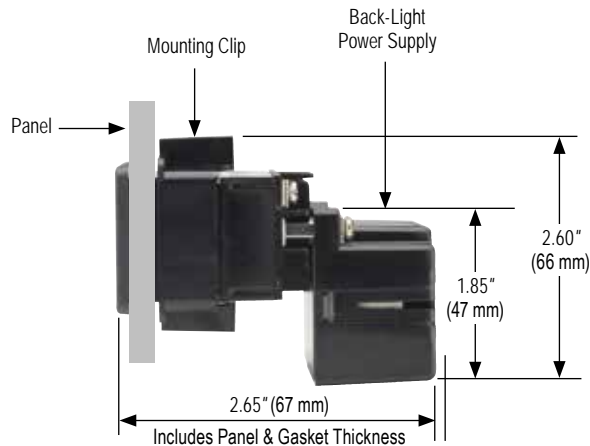
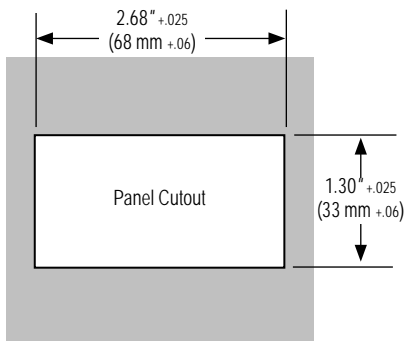
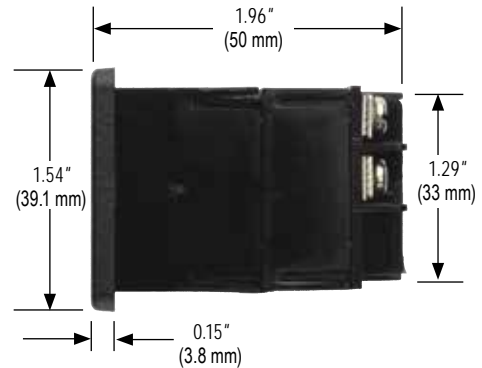
Please consult your local NOSHOK Distributor or NOSHOK, Inc. for availability and delivery information.

EXAMPLE

Series1900 Series
 Input signalCurrent
 OptionRed backlight LCD



| OPTIONAL POWER SUPPLIES | | |
|-------------------------|---------|--------|
| MODEL | INPUT | OUTPUT |
| PS1 | 115 Vac | 12 Vdc |
| PS2 | 115 Vac | 24 Vdc |



1900C-3/1900C-4: Loop Powered Display with backlight power supply

1950 SERIES



APPLICATIONS

Suitable for a wide variety of applications requiring pressure, flow, level, force and temperature measurement, including:

- Process indication
- On/off pump controls
- Compressor controls
- Safety or shutdown alarms

- Offers all the features of a full size panel meter in a compact digital display for pressure, flow, level, force, and temperature measurement
- 5 digit, 0.48" LCD display with a span range of -9999 to 99999
- Reflective LCD display; or green backlighting optional
- Display is fully expandable to accommodate applications requiring relays, dual sinking outputs, and serial communications by RS232 or RS485
- Fully scalable & field upgradable
- Simple programming through front panel
- Compact, lightweight, impact-resistant NEMA 4X, IP65 housing with sealed front bezel
- CE compliant to suppress RFI, EMI, and ESD
- Relay, communications and dual sinking output option cards available

SPECIFICATIONS

| | | |
|------------------------|--|--|
| Input signals | 4 mA to 20 mA, 0 Vdc to 10 Vdc (optional RTD and Thermocouple) | |
| Process display | 5 digit, 0.48" liquid crystal display | |
| Key pad | 2 programmable function keys | |
| Power requirement | 9 Vdc to 28 Vdc | |
| | Power consumption | 10 mA typical, 95 mA with max. display intensity |
| Electrical connection | Screw terminals at back of case | |
| Memory | EEPROM | |
| Accuracy | <0.1% of full scale | |
| Humidity | <85%, non-condensing | |
| Vibration | 5-500 Hz, 5g | |
| Shock | 30 g | |
| Normal rejection mode | 60 dB 50/60 Hz | |
| Altitude | Up to 2,000 meters | |
| Update rate | 500 msec | |
| Temperature ranges | Operating | -31 °F to 167 °F (-35 °C to 75 °C) |
| | Effect | ≤ 0.1% of full scale /18 °F (10 °C) |
| | Storage | -31 °F to 185 °F (-35 °C to 85 °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 | 0.25 seconds to 1 second, selectable | |
| Min/Max reading | Captures and stores min/max measurement | |
| User inputs | 1 programmable, 28 Vdc max. continuous | |
| Linearization | 2 point | |
| Weight | 3 oz. | |
| Option cards | Serial communication (RS232 or RS485) Analog output (0-20 mA, 4-20 mA or 0-10 Vdc) Single or Dual Relay (NPN or PNP type) USB programming | |

Note: See page 14-15 for more information on power supplies, enclosures, and option cards.

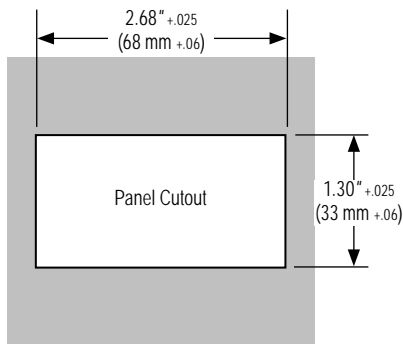
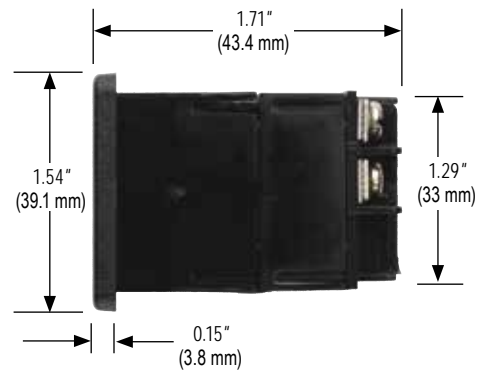
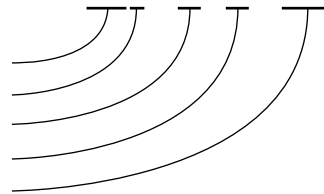
| ORDERING INFORMATION | | | |
|-------------------------|--------------------------------|--------------------------------|-------------------------------------|
| SERIES | 1950 | | |
| INPUT SIGNALS | C Current | V Voltage | R Resistance |
| DISPLAYS | 1 Reflective | 2 Backlight | |
| OPTION CARDS | 0 None | 2 Dual sinking open collector | 7 RS485 comm |
| | 1 Single relay | 6 RS232 comm | |
| OPTIONAL POWER SUPPLIES | PS1 115 Vac to 12 Vdc (400 mA) | PS2 115 Vac to 24 Vdc (200 mA) | PS3 85 - 250 Vac to 12 Vdc (400 mA) |
| OPTIONAL ENCLOSURES | ENC1 Black painted steel | ENC2 Off-white fiberglass | |

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

EXAMPLE

Series1950 Series
 Input signalCurrent
 DisplayReflective
 Option cardSingle relay
 OptionBlack painted steel enclosure

1950C - 1 - 1 - ENC1



2000/2100 SERIES



- Accepts a variety of standard process signals and precisely scales them into any desired unit of measurement
- Single input or dual input
- Employs advanced technology for stable, drift-free readout
- Field upgradable with plug-in option cards; including 4 set point alarms, analog output and serial communication
- 16 point scaling for non-linear processes
- Max. and min. value display
- Easy menu-driven programming
- NEMA 4X/IP65 sealed front bezel
- Optional PC software available for configuration
- AC or DC input power
- Signal totalizer for batch weighing or other timed input processes
- Programmable signal response time
- Standard DIN panel cutout
- CE compliant to suppress RFI, EMI, and ESD

APPLICATIONS

- Process indication
- On/off pump controls
- Compressor controls
- Safety or shutdown alarms
- Local indication with signal
- Retransmission to computer control system

SPECIFICATIONS

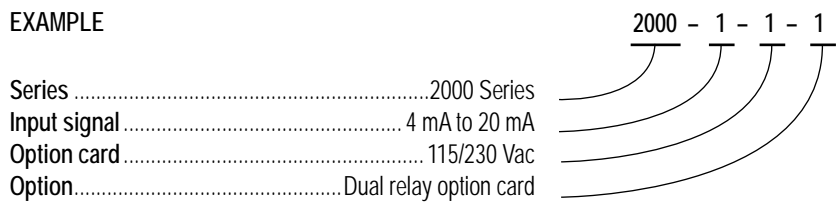
| | | |
|------------------------|--|------------------------------------|
| Input signals | 4 mA to 20 mA, 0 Vdc to 10 Vdc (optional RTD and Thermocouple) | |
| Sensor excitation | Built-in 24 Vdc | |
| Process display | 5 digit, 0.56" Red LED | |
| Key pad | 3 programmable function keys, 5 total | |
| Power requirement | AC version | 85 Vac to 250 Vac, 50/60 Hz, 15 VA |
| | DC version | 11 Vdc to 36 Vdc, 11 W |
| Electrical connection | Screw terminals at back of case | |
| Memory | EEPROM | |
| Accuracy | <0.03% of full scale | 64 °F to 82 °F (18 °C to 50 °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 | 200 msec | |
| 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 second, selectable | |
| Min/Max reading | Captures and stores min/max measurement | |
| User inputs | 3 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 | 10.4 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 | |

Note: See page 14-15 for more information on enclosures and option cards.

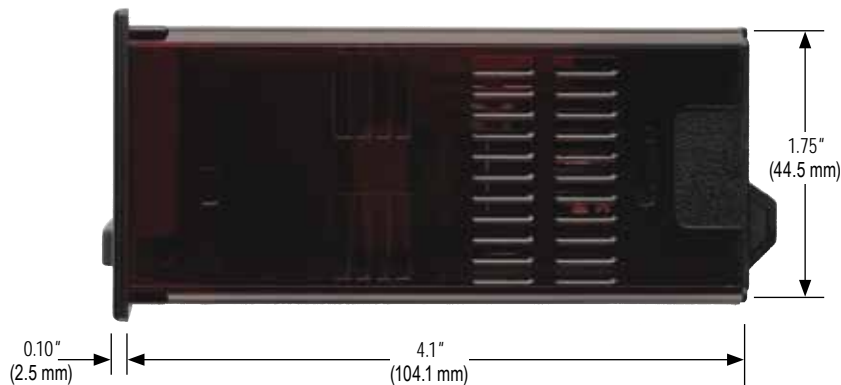
| ORDERING INFORMATION | | | | | |
|----------------------|--------------------------|-----------------------------|---------------------------|--|-------------------|
| SERIES | 2000 (Single input) | | 2100 (Dual input) | | |
| INPUT SIGNALS | 1 4 mA to 20 mA | 2 0 Vdc to 5 Vdc | 4 1 Vdc to 6 Vdc | 5 0 Vdc to 10 Vdc | 6 1 Vdc to 11 Vdc |
| POWER REQUIREMENTS | 1 115/230 Vac | 3 11 Vdc to 36 Vdc | | | |
| OPTION CARDS | 0 No option card | 3 Quad NPN-OC option card | | 6 RS 232-C Serial communications option card | |
| | 1 Dual relay option card | 4 Quad PNP-OC option card | | 7 RS 485 Serial communications option card | |
| | 2 Quad relay option card | 5 Analog output option card | | | |
| OPTIONAL ENCLOSURES | ENC1 Black painted steel | | ENC2 Off-white fiberglass | | |

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

EXAMPLE



OPTIONAL ACCESSORIES
 RS232C Mating connector
 RS485 Mating connector
 2000-50000 NEMA 4 enclosure



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

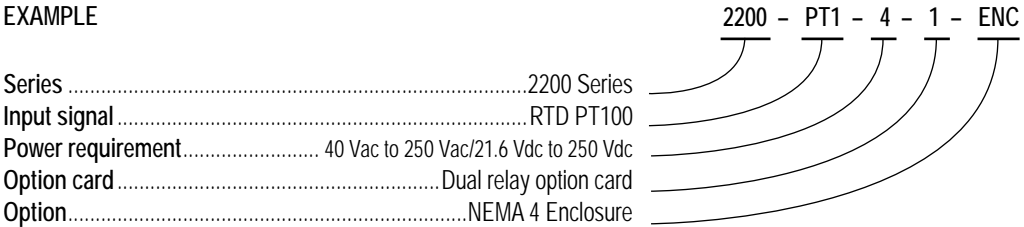
SPECIFICATIONS

| | | |
|------------------------|--|--|
| 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 |
| 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 |
| OPTIONAL ENCLOSURES | ENC1 | Black painted steel | ENC2 Off-white fiberglass |
| | | | 6 RS 232-C Serial communications option card |
| | | | 7 RS 485 Serial communications option card |

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

EXAMPLE



Options & Accessories

BACKLIGHT & DISPLAY

- Available for 1900 Series
- Green backlight and red backlight versions available
- Display options shown to the right



Green backlight version
1900C-3



Red backlight version
1900C-4



1900C-3/1900C-4: Loop-powered
display with backlight
power supply



1900C-1/1900C-2:
Loop-powered

POWER SUPPLIES

- Available for 1900 & 1950 Series
- PS1 (115 Vac to 12 Vdc (400 mA) and PS2 (115 Vac to 24 Vdc (200 mA) power supply options are available for 1900 & 1950 Series models for powering a typical 2-wire loop or 3-wire configuration
- PS3 (85 - 250 Vac to 12 Vdc (400 mA) is also available for 1950 Series model



1900 & 1950 Series
Optional Power Supply

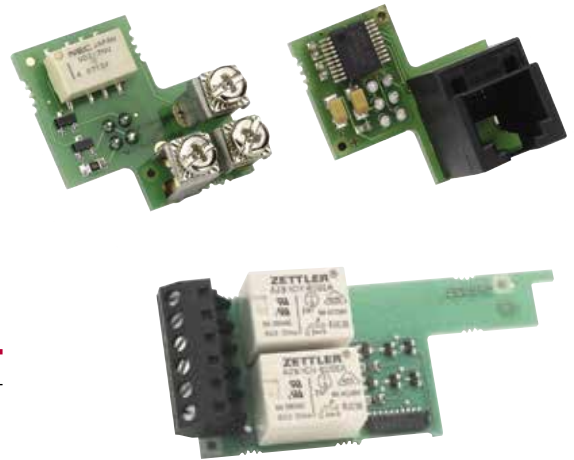
ENCLOSURES

- Black painted steel and off-white fiberglass enclosure options available for the 1950 Series
- NEMA 4X/IP65 enclosures (sealed bezel only) standard on 1950 & 2000/2100 Series



OPTION CARDS

- Plug-in cards are available options for the 1900 & 1950 Series, that provide alarm and setpoint relay outputs, analog and digital outputs, including RS 232-C and RS 485 functions.
- RS232 Comm, single relay, RS485 comm, dual sinking open collector option cards available for 1950 Series
- Dual relay, quad relay, quad NPN-OC, quad PNP-OC, analog output, RS232-C serial communications and RS 485 serial communications options cards available for 2000/2100 Series



Typical plug-in option card with on board terminals

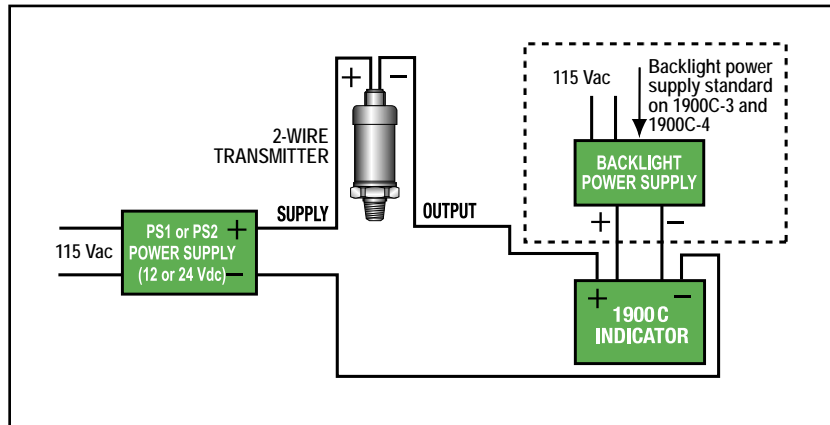
| OPTION CARDS | |
|---------------------------------|---|
| Relay option card | Type: single FORM-C relay Isolation to sensor & user input commons: 1400 Vrms for 1 min. Working voltage: 150 Vrms Contact rating: 1 amp @ 30 Vdc resistive; 0.3 amp @ 125 Vac resistive Life expectancy: 100,000 minimum operations Response time: Turn on time: 4 msec max. Turn off time: 4 msec max. |
| Communications option card | RS485 multi-point balanced interface (non-isolated) Baud rate: 300 to 38.4k Data Format: 7/8 bits; odd, even, or no parity Bus address: 0 to 99; max 32 meters per line Transmit delay: Selectable RS232 half duplex (non-isolated) Baud rate: 300 to 38.4k Data format: 7/8 bits; odd, even, or no parity |
| Dual sinking output option card | Non-isolated switched DC, N channel open drain MOSFET Current rating: 100 mA max. VDS ON: 0.7 V @ 100 mA VDS MAX: 30 Vdc Offstate leakage current: 0.5 mA max. |
| Dual relay option card | Two FORM-C relays. Rating: One relay energized; 5 amps @ 120/240 Vac/115/230 Vac or 28 Vdc (resistive load), 1/8 HP @ 120 Vac, inductive load. Total current not to exceed 5 amps with both relays energized |
| Quad relay option card | Four FORM-A relays. Rating: One relay energized: 3 amps @ 240 Vac or 30 Vdc (resistive load), 1/10 HP @ 120 Vac, inductive load. Total current not to exceed 4 amps with all four relays energized |
| Analog output option card | 0 mA to 20 mA, 4 mA to 20 mA or 0 Vdc to 10 Vdc retransmitted signal |
| Quad NPN-OC option card | 4 isolated open collector sinking transistors, 100 mA at maximum 30 Vdc |
| Quad PNP-OC option card | 4 isolated open collector sourcing transistors, 24 Vdc with 30 mA total maximum |
| Communication option cards | RS232C or RS485 |

AC TO DC RETROFIT PACKAGE

- Easily integrates with non-metallic seal and transmitter/switch assemblies to operate with 110/240 VAC systems
- Solid state relay - 10A at 250 VAC
- DIN rail mountable with NEMA 4X enclosure



1900 SERIES WIRING DIAGRAM



Typical wiring for the 1900C including the optional backlight feature. .

NOTES

NOTES

A series of horizontal lines for writing notes, with a large stylized watermark 'WQ' in the background.

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Quality Policy

NOSHOK

is committed to providing a high degree of value and continually improving processes to improve customer satisfaction by focusing on customer requirements for the design, manufacture and distribution of pressure, temperature, and force measurement instruments along with needle and manifold valves including custom manifold systems for industrial applications.

All from world class technology.

Combined with real-world stamina.

The highest value with the industry's best warranty.

And all from a company with a 45+ year record of customer satisfaction.

All from your Single Source Instrumentation Company.



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