

Model NK

Portable LCD Display/Signal Conditioner



DESCRIPTION

The Model NK portable instrument features a full 4 1/2 digit LCD display and is designed for use in remote field operations as a portable calibrator or readout device. Shunt calibration offers the operator quick field setup with a minimum of warm-up. A peak/hold feature is optional.

FEATURES

- Strain-gage/bridge-based transducer input
- 4-1/2 digit LED display
- Battery powered
- Analog output option
- Not RoHS compliant

Model NK

GENERAL SPECIFICATIONS

Characteristic	Measure
Number of channels	1
Material	Deep drawn Aluminum case

ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	0 °C to 54 °C [32 °F to 130 °F]
Temperature, storage	-29 °C to 66 °C [-20 °F to 150 °F]
Power requirement	Batteries - 4 "D" cells

TRANSDUCER INTERFACE SPECIFICATIONS

Characteristic	Measure
Transducer excitation	4 Vdc
Types of inputs accepted	0.5 mV/V to 4 mV/V
Transducer bridge range	350 ohm
Pushbutton shunt cal	Yes
Calibration method	Manual
Electrical connection type	PT02A-10-6S1
Zero balance	± 15 % of full scale (min.)
Noise and ripple	30 microvolts

AMPLIFIER CHARACTERISTICS SPECIFICATIONS

Characteristic	Measure
Full scale outputs available	0 V to 1 V (optional)
Output impedance	< 1 ohm (optional)
Non-linearity	±0.02 % of full scale (max.)
Drift, zero	±5 mV (max.)
Drift, span	±5 mV (max.)
Stability, zero	0.1 % of full scale/year
Stability, span	0.1 % of full scale/year
Frequency response	1000 Hz
Span adjustment, fine	±15 % of range
Span adjustment, coarse	100 % of range
Zero adjustment, fine	±15 % of range
Zero adjustment, coarse	100 % of range
Short circuit protection	Yes

DIGITAL DISPLAY CHARACTERISTICS SPECIFICATIONS

Characteristic	Measure
Number of display characters	4-1/2
Conversion/second	1.5
Scaling	0-19999
Scaling method	Zero and span adjustment
Max. display count	19999
Polarity indications	Yes
Programmable decimal points	Yes
Display size	10,2 mm [0.4 in]
Overrange indication	Yes
Resolution	1/20000
Type	LCD
Max. sensitivity	0.1 microvolt/count
Peak/hold	Yes (optional)

PHYSICAL CHARACTERISTICS SPECIFICATIONS

Characteristic	Measure
Weight	1,4 kg [3 lb]

POWER SUPPLY SPECIFICATIONS

Characteristic	Measure
Power requirements	4 "D" cells

FRONT PANEL SPECIFICATIONS

Characteristic	Measure
Digital display	4-1/2 digits LCD
Environmentally sealed	Weatherproof case

OPTION CODES

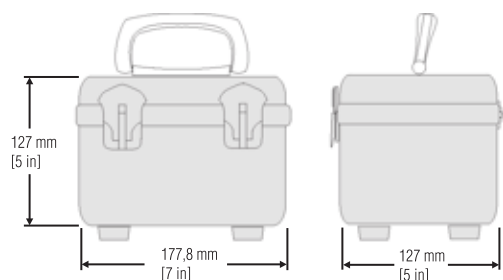
	Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings.
Input	52c. 10 mV/V to 40 mV/V
Output	56e. 0 Vdc to 1 Vdc
Special features	58c. Peak/hold 58m. Knob zero and span adjustments

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WIRING CODES

Wiring codes	
A	(+) excitation
B	(+) sense
C	(-) excitation
D	(-) sense
E	(-) input
F	(+) input

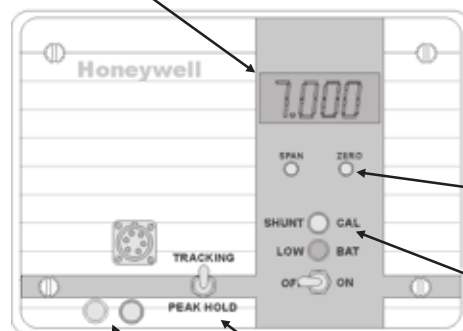
MOUNTING DIMENSIONS AND CHARACTERISTICS



For reference only

FEATURES

4 1/2 digit display



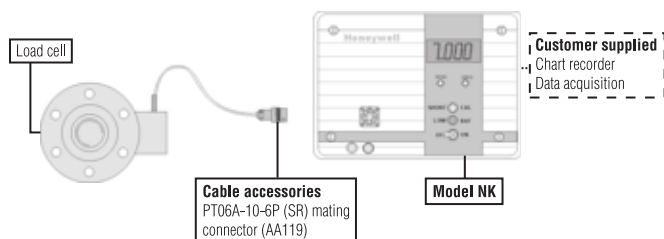
Zero & gain pots

Shunt calibration

0V - 1V analog output
(56e. option)

Peak/hold tracking
(58c. option)

TYPICAL SYSTEM DIAGRAM



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Notes

1. PT06A-10-6P (SR) mating connector, order code AA119

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit www.honeywell.com/sensing or call +1-815-235-6847

Email inquiries to info.sc@honeywell.com

WARNING **PERSONAL INJURY**

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING **MISUSE OF DOCUMENTATION**

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

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