

1/32 DIN Model iS32 Strain & Process Meters & Controllers

DPIs32 Series

\$195

Basic Unit



**Available
August 1999**

- ✓ High Quality
- ✓ FREE 5-Year Warranty
- ✓ High Accuracy 0.03% Rdg
- ✓ User Friendly, Simple to Configure
- ✓ Free Software, Active X Controls

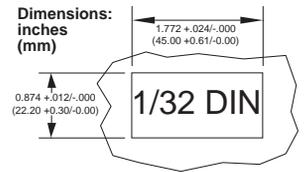


Shown actual size

LC1000 Series Load Cells
see F-92



iS32 works with all
common Load Cells &
Pressure Transducers



PANEL CUTOUT
Bezel size
1.89 x 1.00"
(48 x 25.5 mm)



The display can be programmed to change color to **GREEN**, **AMBER**, or **RED** at any setpoint or alarm point.

The iS32 series of meter/controllers can measure a wide variety of DC voltage and current outputs for all common load cells, pressure transducers, and most any strain gauge type of transducer. It is the first instrument of its kind, offering a wealth of powerful features and performance in an amazingly compact 1/32 DIN package.

The iS32 handles input ranges of 0-100 mV (± 50 mV), 0-1 V, 0-10 V, 0-20 mA (4-20 mA). The iS32 is easy to configure and scale to virtually any engineering units using the push buttons on the front panel, or using a personal computer with the optional serial communications and free configuration software. The serial communications option includes both RS-232 and RS-485 on one instrument, and the straightforward OMEGA ASCII communications protocol, as well as MODBUS protocol. The iS32 includes built-in excitation for transducers, selectable as 10 V at 100 mA or 5 V at 60 mA.

The iS32 features a choice of two optional outputs: Form C SPDT (single pole double throw) mechanical relays, solid state relays, DC pulse, and programmable analog output selectable for either a control function or retransmission of the process value.

The iS32 features the iSeries totally programmable color display that can change colors between **Green**, **Amber**, and **Red** at any setpoint or alarm point.

SPECIFICATIONS:

Input Ranges: 0-100 mV, ± 50 mV, 0-1 V, 0-10 V, 0-20 mA, 4-20 mA

Isolation: 354 V peak per IEC spacing

NMR: 60 dB

CMR: 120 dB

Input Impedance:

10 M Ω for 100 mV input

1 M Ω for 1 or 10 V input

5 Ω for 20 mA current input

Display: 4 digits, 9 segments 21 mm (.83")

Analog-to-Digital technique: Dual slope

Internal resolution: 15 bits

Read rate: 3 / sec

Polarity: Automatic

Max Error Strain/Process: $\pm 0.03\%$ rdg.

Span tempco.: ± 50 ppm / C

Step response: 1-2 sec.

Warmup to rated accuracy: 30 min.

Analog Output (optional): 0-10 V, 4-20 mA, can be used as Retransmission or PID Control.

Excitation Voltage: 10 V @ 100 mA, 5 V @ 60 mA

Power: 90-240 Vac 50-400 Hz or 90-375 Vdc, 4 W

or (optional) 24 Vac 50-400 Hz or 12-36 Vdc, 5 W

Dimensions: 48 H x 96 W x 127 D mm (1.89 x 3.78 x 5.0")

Weight: 295 g (0.65 lb)

Approvals: CE per EN50081-1, EN50082-2, EN61010-1

To Order (*Specify Model No.)

MODEL NUMBER	DESCRIPTION	PRICE
DPIs32	No control outputs (monitor only)	\$195
2 CONTROL OUTPUTS - Direct or Reverse Acting		
CNiS32 2 2	Two solid state relays (SSR): 0.01-1 A @ 12-280 Vac continuous	240
CNiS32 2 3	SSR and relay: Form "C" SPDT 3 A @ 120/240 Vac	240
CNiS32 2 4	SSR and pulsed 10 Vdc @ 20 mA (for use with external SSR)	240
CNiS32 3 3	2 relay: Form "C" SPDT 3 A @ 120/240 Vac	240
CNiS32 3 4	Relay and pulsed 10 Vdc @ 20 mA (for use with external SSR)	240
CNiS32 4 4	Two pulsed 10 Vdc @ 20 mA (for use with external SSR)	240
CNiS32 5 2	Analog output selectable as either control or retransmission of process value; 0 to 10 Vdc or 0-20/4-20 mA @ 500 Ω max. and SSR	240
CNiS32 5 3	Analog output 0 to 10 Vdc or 0-20/4-20 mA @ 500 Ω max. and Relay	240
CNiS32 5 4	Analog output 0 to 10 Vdc or 0-20 mA @ 500 Ω max. and pulse 10 Vdc	240
SERIAL COMMUNICATION (optional)		
-C24	Isolated RS-232 and RS-485 300 to 19.2 k baud	60
POWER SUPPLY (optional)		
	Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	N/C
-DC	24 Vac 50-400 Hz or 12-36 Vdc, 5 W (optional)	25

Ordering Example: **CNiS3222-C24-DC**, Two solid state relays (SSR), Isolated RS-232 and RS-485 300 to 19.2 k baud, 10-34 Vac/dc, \$325

Model iS8 1/8 DIN Strain & Process Meters & Controllers

iSeries

DPIs8 Series
\$275
 Basic Unit

- ✓ High Quality
- ✓ FREE 5-Year Warranty
- ✓ High Accuracy 0.03% Rdg
- ✓ User-Friendly, Simple to Configure
- ✓ Free Software, Active X Controls

Available August 1999



Shown actual size

The iS8 series of meter/controllers handles a wide variety of DC voltage and current outputs for all common load cells, pressure transducers, and most any strain gauge type of transducer. The iS8 measures input ranges of 0-100 mV (± 50 mV), 0-1 V, 0-10 V, 0-20 mA (4-20 mA).

The iS8 is easy to configure and scale to virtually any engineering units with the push buttons on the front panel, or with a personal computer using the free configuration software and the optional serial communications. The serial communications option includes both RS-232 and RS-485 on one instrument, and the straightforward OMEGA ASCII

communications protocol, as well as MODBUS protocol. The iS8 includes built-in excitation for transducers, selectable as 10 V at 100 mA or 5 V at 60 mA.

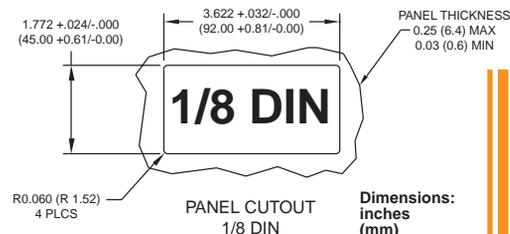
The iS8 features the iSeries totally programmable color display, the biggest, brightest display of any 1/8 DIN instrument, that can change colors between Green, Amber, and Red at any programmed set point or alarm point.

The iS8 features a choice of two optional outputs: Form C SPDT (single pole double throw) mechanical relays, Solid State Relays, DC pulse, and/or programmable analog output selectable as either a controlling function or as retransmission of the process value.

LC100 Series Load Cells see F-37



iS8 works with all common Load Cells & Pressure Transducers



SPECIFICATIONS:

Input Ranges: 0-100 mV, ± 50 mV, 0-1 V, 0-10 V, 0-20 mA, 4-20 mA

Isolation: 354 V peak per IEC spacing

NMR: 60 dB

CMR: 120 dB

Input Impedance:

10 M Ω for 100 mV input

1 M Ω for 1 or 10 V input

5 Ω for 20 mA current input

Display: 4 digits, 9 segments 21 mm (.83")

Analog-to-Digital technique:

Dual slope

Internal resolution: 15 bits

Read rate: 3 / sec

Polarity: Automatic

Max Error Strain/Process: $\pm 0.03\%$ rdg.

Span tempo.: ± 50 ppm / C

Step response: 1-2 sec.

Warmup to rated accuracy: 30 min.

Analog Output (optional): 0-10 V, 4-20 mA, can be used as Retransmission or PID Control.

Excitation Voltage: 10 V @ 100 mA, 5 V @ 60 mA

Power: 90-240 Vac 50-400 Hz or 90-375 Vdc, 4 W or (optional) 24 Vac 50-400 Hz or 12-36 Vdc, 5 W

Dimensions: 48 H x 96 W x 127 D mm (1.89"x3.78"x5.0")

Weight: 295 g (0.65 lb)

Approvals: CE per EN50081-1, EN50082-2, EN61010-1



To Order (*Specify Model No.)

MODEL NUMBER	DESCRIPTION	PRICE
DPIs8	No control outputs (monitor only)	\$275
2 CONTROL OUTPUTS - Direct or Reverse Acting		
CNiS8	2 2 Two solid state relays (SSR): 0.01-1 A @ 12-280 Vac continuous	345
CNiS8	2 3 SSR and relay: Form "C" SPDT 3 A @ 120/240 Vac	345
CNiS8	2 4 SSR and pulsed 10 Vdc @ 20 mA (for use with external SSR)	345
CNiS8	3 3 2 relay: Form "C" SPDT 3 A @ 120/240 Vac	345
CNiS8	3 4 Relay and pulsed 10 Vdc @ 20 mA (for use with external SSR)	345
CNiS8	4 4 Two pulsed 10 Vdc @ 20 mA (for use with external SSR)	345
CNiS8	5 2 Analog output selectable as either control or retransmission of process value; 0 to 10 Vdc or 0-20/4-20 mA @ 500 Ω max. and SSR	345
CNiS8	5 3 Analog output 0 to 10 Vdc or 0-20/4-20 mA @ 500 Ω max. and Relay	345
CNiS8	5 4 Analog output 0 to 10 Vdc or 0-20 mA @ 500 Ω max. and pulse 10 Vdc	345
SERIAL COMMUNICATION (optional)		
-C24	Isolated RS-232 and RS-485 300 to 19.2 k baud	60
POWER SUPPLY (optional)		
	Standard power input: 90 to 240 Vac/dc, 50 to 400 Hz (no entry required)	N/C
-DC	24 Vac 50-400 Hz or 12-36 Vdc, 5 W (optional)	25

Ordering Example: CNiS822-C24-DC, Two solid state relays (SSR), Isolated RS-232 and RS-485 300 to 19.2 k baud, 10-34 Vac/dc, \$430

INSTRUMENTATION D

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