



SINCE 1974

DIGITAL PROCESS CONTROLLER 1/8 DIN/NEMA

SERIES
260

MODEL 261

MODEL 263



FEATURES

- >BUILT-IN EXCITATION (E OR I)
- >SET POINT OPTION
- >3 1/2 DIGIT DISPLAY WITH DUMMY ZERO
- >LED OR LCD DISPLAY
- >SCREW CONNECTOR
- >STRAIN-GAUGE INPUT
- >MILLIVOLTS DC INPUT
- >5 VDC OR 115/230 VAC POWER
- >1/8 DIN/NEMA CASE



DESCRIPTION

The Series 260 offers high reliability at low cost for all your process control or display needs. Its modular construction allows an upgrade of the instrument without a basic mainframe change.

DISPLAY OPTIONS

Either .6" bright LED or .4" LCD displays with optional (and programmable) dummy zero to display 19990 counts.

INPUT RANGES

The most popular ranges are available. Contact the factory for custom input ranges.

ZERO OFFSET CONTROL

The A/D is auto zero and to it we have added a manual input zero adjust with over +/-100% range to cover all your input scaling requirements.

FULL SCALE ADJUST

Wide range 15 turn potentiometer with +/-500 count range.

STRAIN-GAUGE/MICROVOLTS INPUT

Precision low drift op-amp to cover low cost as well as high accuracy transducers.

SET POINT OPTION

Compares the A/D input to the adjustable set points that can be displayed on the readout by the flip of a switch. Set points and hysteresis are adjustable over the entire input range. The 1 Amp relay controls your process or contactor with its SPDT contacts.

DECIMAL POINTS

Dip switch programmable behind front bezel.

POWER INPUT AND EXCITATION OUTPUT:

Standard power is 5 VDC, or optional factory-installed 115/230 VAC power. Isolated Excitation options include 1.8mA current source with 6 VDC compliance, regulated 5 VDC at 200mA, unregulated 9 VDC at 100mA, or unregulated 18 VDC at 10mA.

HOUSING

94V0 UL ABS plastic meets 1/8 DIN and NEMA panel cut-out standard dimensions.

CONNECTOR

Screw type accepts 18 to 30 AWG.

WARRANTY:

Backed by IMC's 3 year warranty and proven quality for over 10 years.

INTERFACE:

TRANSMITTERS: IMC manufactures the "Series 50" of "Hockey Puck" type current loop transmitter for strain-gauge transducer, thermocouple, RTD, thermistor, resistance, millivolts, PH, etc. input. (Some with built-in). Ask for the "Series 50" brochure.

PRESSURE:

Our new Series 280 digital manometer has a built-in **PRESSURE TRANSDUCER** with the port available on the rear of the instrument. It looks just like the 260. Ask for "Series 280" brochure.

SPECIFICATIONS AT 25°C

MAINFRAME

ZERO-----AUTOMATIC
 ACCURACY & LINEARITY-----+/-0.05% +/- 1 DIGIT
 TEMPERATURE COEFFICIENT-----50 PPM/°C
 CONVERSION RATE-----3/SECOND
 INPUT TYPE-----DIFFERENTIAL/SINGLE ENDED/RATIOMETRIC

DISPLAYS:

LED-----.6" RED; Power Consumption-----100mA @ 5VDC
 LCD-----.4" Reflective (Black) Power Cons.-----10mA @ 5VDC

INPUT IMPEDANCE vs RANGE:

1000M Ω on 200mV, 50mV, 20mV & Strain-Gauge ranges.
 10M Ω on 2, 20, 200 and 500 VDC Ranges.
 5 Ω on 4-20mA Ranges, 1K Ω on 200 μ A, 100 Ω on 2mA, 10 Ω on 20mA
 & 1 Ω on 200mA Range.

ZERO OFFSET CONTROL

Stability-----50 PPM/ $^{\circ}$ C
 Range-----+/- 2000 Counts

FULL SCALE ADJUST: +/-500 Counts

STRAIN-GAUGE/MICROVOLTS INPUT RANGES:

GAIN-----10; Stability-----50 PPM/ $^{\circ}$ C

ORDERING INFORMATION

MODEL 26 X X X 0 X X

DISPLAY TYPE	POWER INPUT & EXCITATION OUT
0--LED 3 1/2-----	!-0--5VDC Only-----
1--LED 3 1/2 w/Dummy Zero--!	!-1--115 VAC Only-----
2--LCD 3 1/2-----	!-2--115 VAC & 5VDC Exc.-----
3--LCD 3 1/2 w/Dummy Zero--!	!-3--115 VAC & 1.8mA Exc.-----
	!-4--115 VAC & 9 VDC UR Exc.---
	!-5--230 VAC Only-----
	!-6--230 VAC & 5VDC Exc.-----
	!-7--230 VAC & 1.8mA Exc.-----
	!-8--230 VAC & 9 VDC UR Exc.---
	!-9--115 VAC & 18 VDC UR Exc.---
	!-A--230 VAC & 18 VDC UR Exc.---
	!-B--7-32 VDC Only-----
	!-C--8-15 VDC Only-----
	SET POINT OPTION
	!-0--None-----
	!-1--Included (Note 1)-----
	ZERO OFFSET
	!-0--None-----
	!-1--Included (Note 2)-----

NOTES

1. Zero offset option must be ordered.
2. Must be ordered for Options A, B and D.
3. Contact factory for calibration and price.

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 270*

SET POINT OPTION:

Range of Setting-----Full Range (+/- 2000 Counts)
 Hysterisis-----Adjustable from 20 Cts. to 4000 Cts.
 Contacts-----1 Amp @ 115 VAC resistive, .25A @ 30VDC
 Power-----50mA @ 5VDC

POWER INPUTS:

5 VDC +/-5% (225 mA for LED worst case fully loaded)
 (60 mA for LCD worst case fully loaded)
 115 VAC +/- 15%: 50-60Hz: 1200V Isolation
 230 VAC +/- 15%: 50-60Hz: 1200V Isolation
 7-32 VDC Non-Isolated, to +5 VDC +/- 5% @ 750mA

AMBIENT:

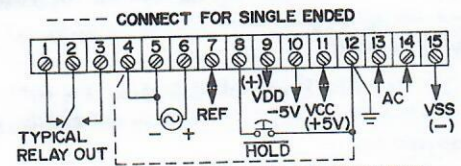
OPERATING-----0-60 $^{\circ}$ C/Storage----- -20 to + 80 $^{\circ}$ C
 HUMIDITY-----0 to 60% RH Std., to 95% Special
 (Contact Factory)

HOUSING: ABS Black, Meets UL 94VD Approval

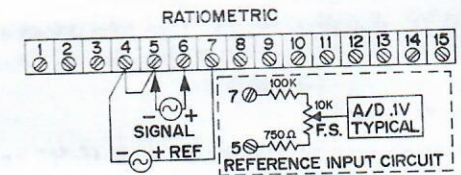
DECALS: Included for your convenience.

TYPICAL CONNECTIONS

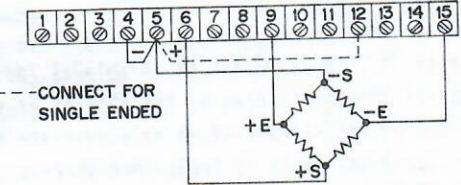
NOTE: When the Set Point Option is used, terminals 4, 5, and 12 must be connected together (Single-Ended Mode)



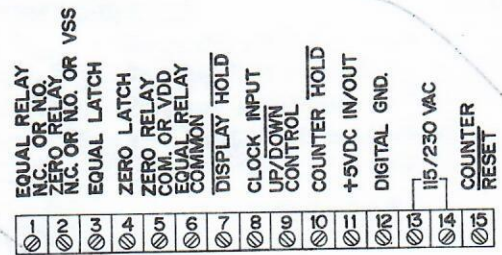
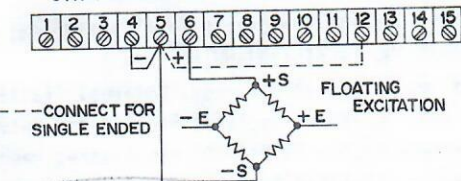
ANY RANGE V OR mA INCLUDING CURRENT LOOPS
 NOTE: PINS 4, 5, AND 12 MUST BE CONNECTED TOGETHER WHEN USING THE SET POINT OPTION



STRAIN-GAUGE W/ INTERNAL EXCITATION VOLTAGE OR CURRENT



STRAIN-GAUGE W/ EXTERNAL EXCITATION



BASIC MAINFRAME TYPICAL TERMINATIONS