DITEL: PRODUCTS: DIGITAL STARS: **816S6YC9**

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DESCRIPTION

Model 816S6 indicators are instruments that readout and control load, pressure, force and other parameters measured by strain-gage transducers. The unit features built-in excitation source and scaling capabilities to accept a wide range of bridge transducers.
Available options include analog or digital outputs and setpoint control which is programmable by either hidden or visible presets.
One selector provides adjustable time delay or hysteresis to limit relay action.
Fully configured at the factory, the following items remain accessible of reconfiguration:

- The input option (excitation, input sensitivity, zero offset, gain).
- Preset values and alarm operating modes. Time delay (0 to 15 seconds) or hysteresis levels (0 to 10 counts of L.S.D.).
- The output card for the type of signal and its range.
- Zero, span adjustments and decimal point location.

SELECTION GUIDE

816	S	6	Y	C	9
PRESET / RELAY					
NO PRESET	0				
1 VISIBLE PRESET	1				
2 VISIBLE PRESETS	2				
1 HIDDEN PRESET	5				
2 HIDDEN PRESETS	6				
INPUT / EXCITATION					
mV (EXC = 1.5mA)		6			
SUPPLY POWER					
115V 50/60Hz			1		
230V 50/60Hz			2		
12V DC ISOLATED			4		
24V 50/60Hz			7		
24V ISOLATED			8		

OUTPUTS					
NONE				0	
RS 232C				1	
BCD (OE)				2	
0-10V/0-1V				3	
0-20mA/4-20mA				4	
RS 232/20mA				5	
BCD (OC)				6	
SILKSCREENED UNIT					

ORDERING EXAMPLE

8162 6249 E50 : Strain-gage meter series 8000
Supply power: 230V AC (50/60Hz)
Output: 4-20mA DC. Unit: bar
2 visible presets Format 96x48mm

SPECIFICATIONS

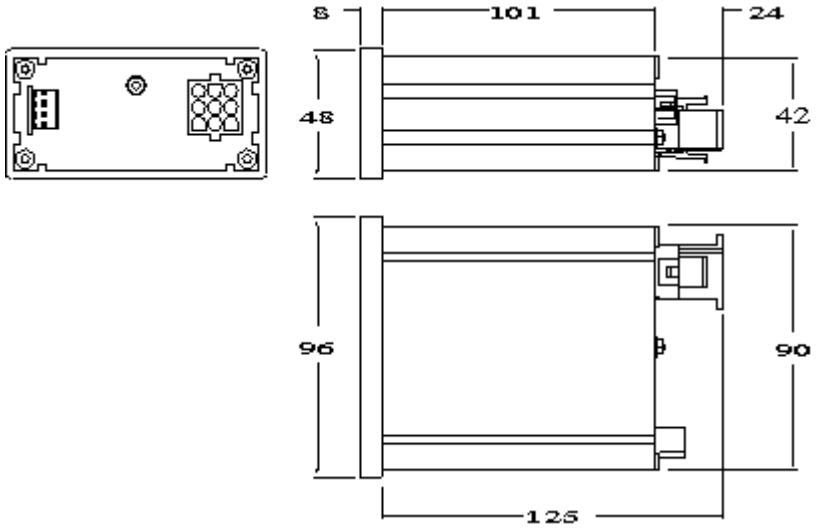
INPUT SIGNAL	
Configuration	differential ratiometric
Input sensitivity	30 to 400mV
Input impedance	100Mohm
Common mode max. voltage (signal/power):	
AC Voltage:	1000V DC or 1500V ACpp
DC Voltage:	± 400V DC
TRANSDUCERS EXCITATION	
Stabilized current	1.5mA DC
Max. bridge resistance	10kohm
Temperature coefficient	0.001mA/°C
Stability	0.01%
Common mode max.voltage (signal/exc):	±2V DC
POWER	
Supply power	
- AC (50/60Hz)	24, 115, 230V AC
- DC (isolated)	12, 24V DC
Maximum isolation	1000V DC or 1500V ACpp
Consumption	5W nominal
ACCURACY	
Resolution	0.05% F.S.
Maximum error	0.10% F.S. ± 1 digit
DISPLAY	
Type	red LED (0.56") 14 mm. high
Polarity	automatic (±) sign

Overrange	1999. (3 L.S.D. blanked)
Reading rate	4 per second

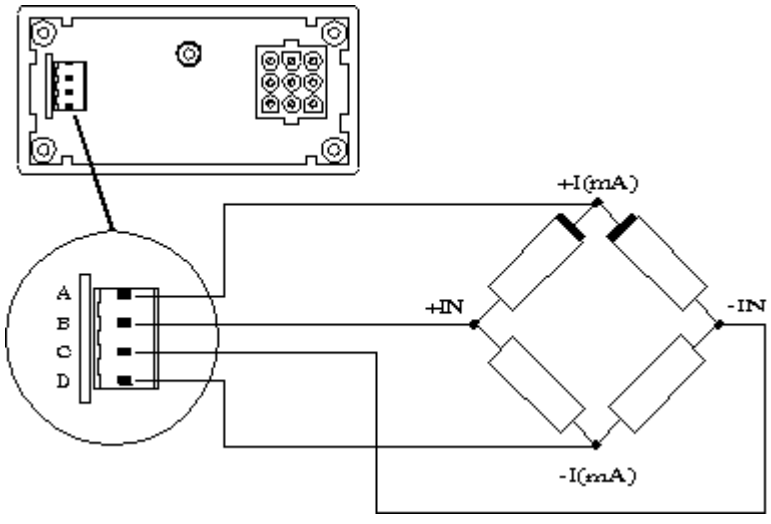
ENVIROMENTALS

Operating temperature	0° to 50°C
Storage temperature	-25° to +85°C
Relative humidity	max. 95% (non condensing)
Weight	380g
Dimensions	96x48x110mm. (s/DIN 43700)
Case material	94 V-0 UL-rated polycarbonate

DIMENSIONS (mm)

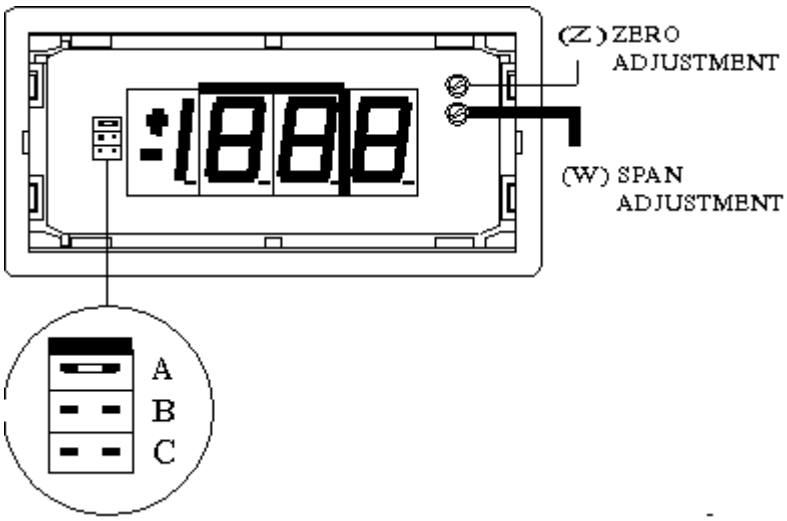


INPUT SIGNAL CONNECTIONS



PIN A Excitation current (+I)
PIN B Input signal (+mV)
PIN C Input signal (-mV)
PIN D Excitation current (-I)

SETUP AND CALIBRATION

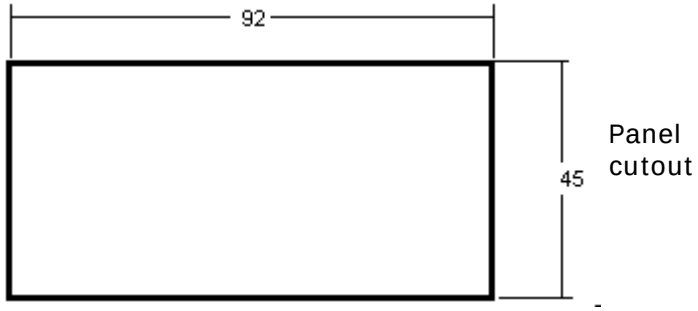


Jumper	Display
A	1.999
B	19.99
C	199.9
None	1999

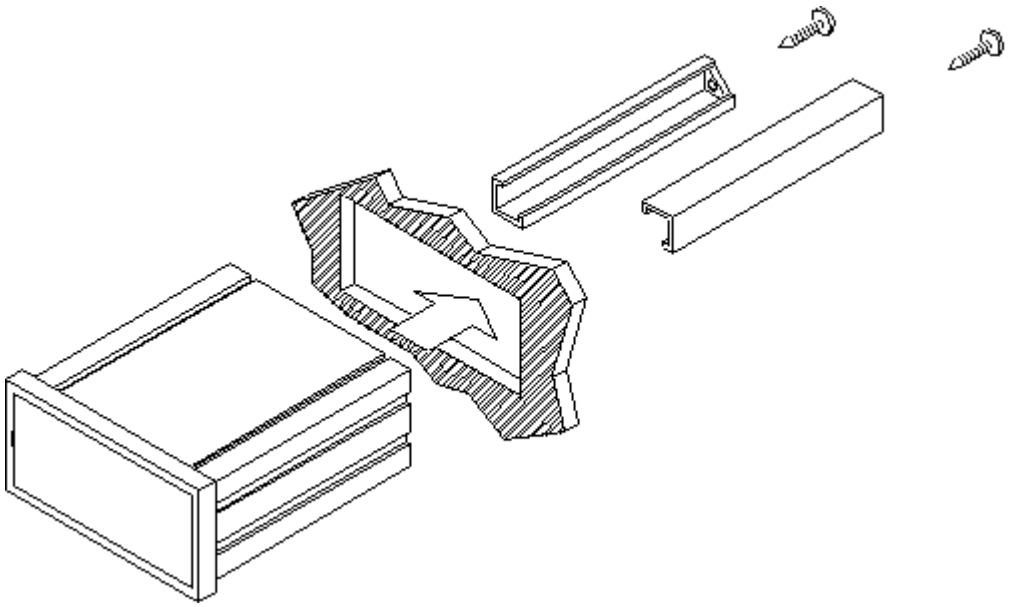
The span adjust corresponds to the potentiometer (Z) located to the upper, right side of the display. Turning clockwise increases the display reading. The adjustment margin is ± 20% of F.S.

The zero adjust corresponds to the potentiometer (W) located below the span potentiometer. Turning clockwise increases the display reading. The adjustment margin is ± 100 counts for a display readout of 2000 counts.

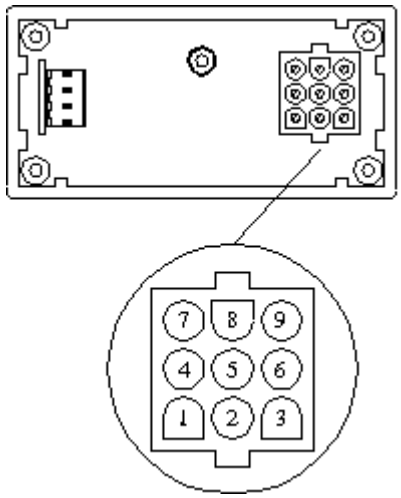
MOUNTING



Min. thickness: 0.8mm
Max. thickness: 10mm



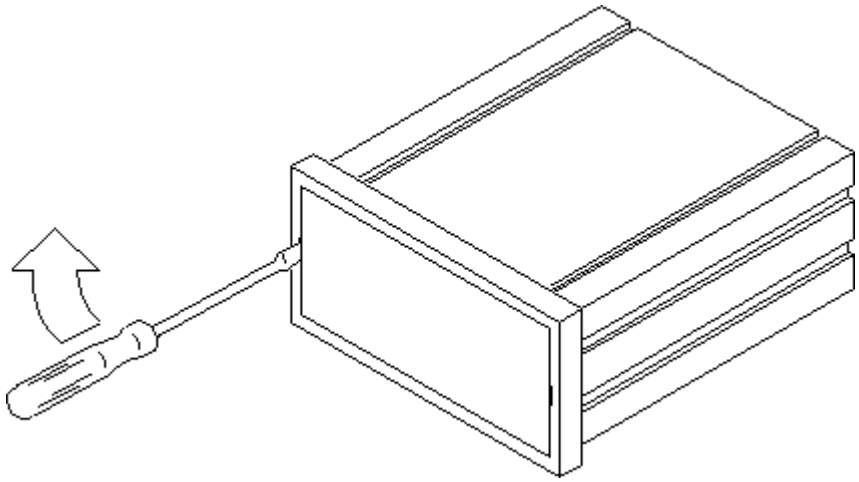
SUPPLY POWER CONNECTION



AC power suply
PIN 7 AC HI
PIN 9 AC LO (neutral)

DC power suply
PIN 7 DC positive (+)
PIN 9 DC negative (-)

ACCESS TO CALIBRATION



Remove lens by placing an appropriate sized screwdriver in the slot and pushing laterally as it is shown in the figure until the lips disengange.
To reinstall lens, insert it completely from one side and press from the other until it is perfectly fitted.

Warranty:
Press the icon to see it.

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