DITEL: PRODUCTS: DIGITAL STARS: **826S0YCX**

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DESCRIPTION

Model 826S panel ammeters are specific instruments for readout and control constant currents up to 5A DC with a built-in shunt.

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 (signal amplitude, 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 option for the type of signal and its range.
- Zero, span adjustments and decimal point location.

SELECTION GUIDE

826	S	0	Y	C	X
PRESET / RELAY					
NO PRESET	0				
1 VISIBLE PRESET	1				
2 VISIBLE PRESETS	2				
1 HIDDEN PRESET	5				
2 HIDDEN PRESETS	6				
SUPPLY POWER					
115V 50/60Hz			1		
230V 50/60Hz			2		
12V DC ISOLATED			4		
24V 50/60Hz			7		
24V DC ISOLATED			8		
OUTPUT					
NONE				0	

RS 232 C				1	
BCD (OE)				2	
0-10V/0-1V				3	
0-20mA/4-20mA				4	
RS 232/20mA				5	
BCD (OC)				6	
1mV/count				8	
SCALE					
1.999A DC					1
5.00A DC					2
1.999mA DC					5
1999mA DC					6
199.9mA DC					7
19.99mA DC					8
UPON REQUEST					9
SILKSCREENED UNIT					

ORDERING EXAMPLE

8266 0242 E11: DC ammeter Series 8000
Supply power: 230V AC (50/60Hz)
2 hidden presets - Scale: 5.00A
Output: 4-20mA - Unit: A DC

SPECIFICATIONS

INPUT SIGNAL

- Configuration differential asymmetrical
- Max allowable current Imax. (IN)
- Input impedance Z (IN)

SCALe	Imax. (IN)	Z (IN)
1.999mA DC	50mA DC	100ohm
19.99mA DC	100mA DC	10ohm
199.9mA DC	500mA DC	10 ohm
1999mA DC	4A DC	0.1ohm
1.999A DC	4A DC	0.1ohm
5.00A DC	7.5A DC	0.01ohm

- Common mode max. voltage (signal/power)

- AC Voltage: 1000V DC or 1500V ACpp
- DC Voltage: ± 400V DC

POWER

- Supply voltages

- 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

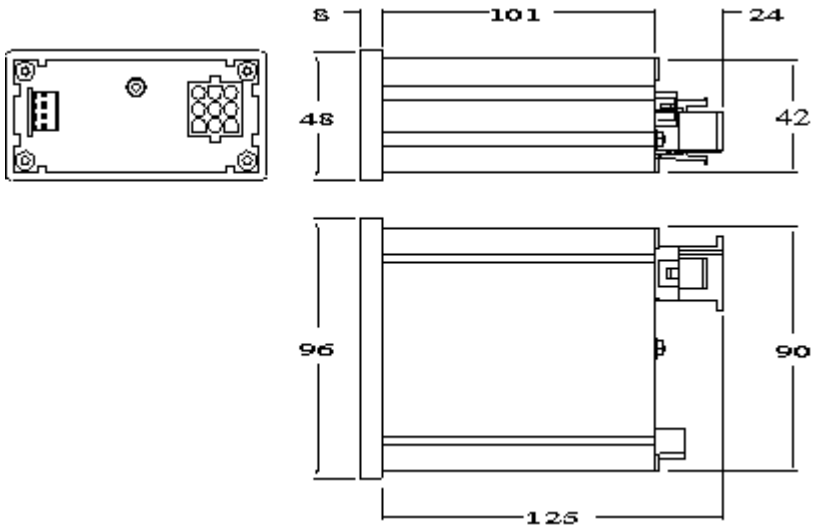
DISPLAY

• Type	red LED (0.56") 14 mm. high
• Polarity	automatic (±) sign
• Overrange	1999. (3 L.S.D. blanked)
• Reading rate	4 per second

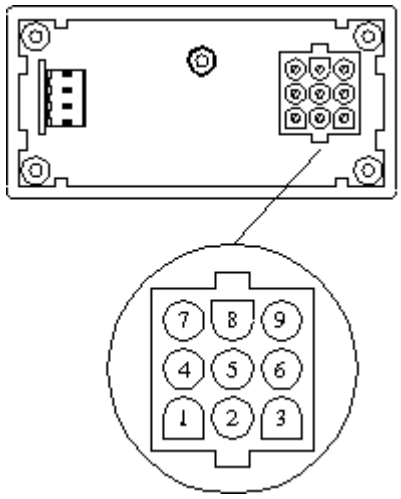
ENVIROMENTAL

• 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)



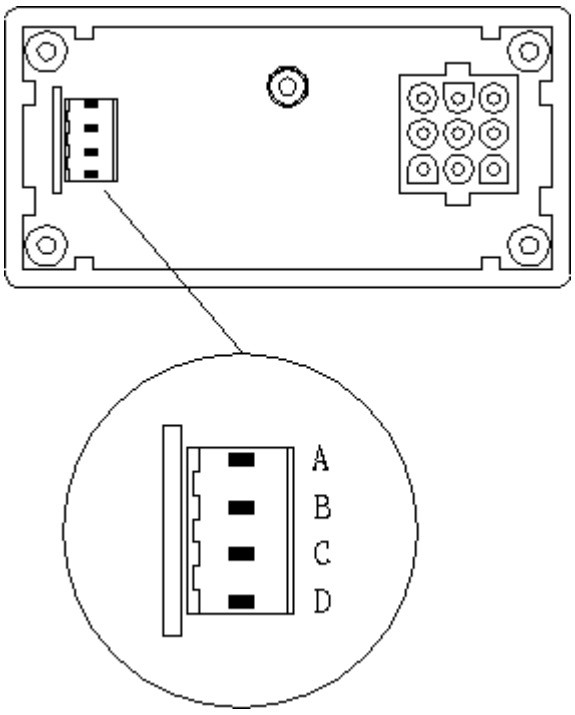
POWER CONNECTION



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

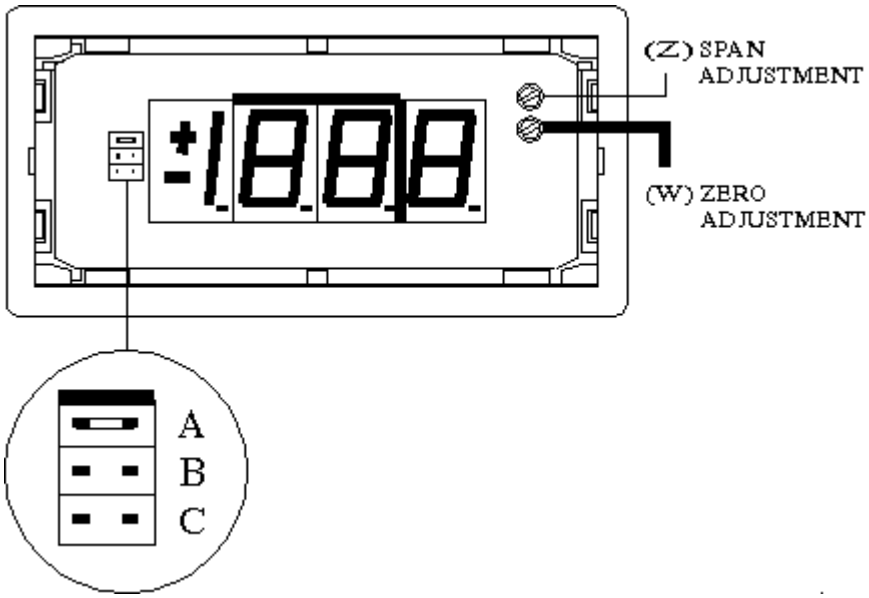
DC power supply
PIN 7 DC positive (+)
PIN 9 DC negative (-)

SIGNAL CONNECTION



Input signal
PIN A Input signal (-)
PIN B Spare
PIN C Spare
PIN D Input signal (+)

SETUP AND CALIBRATION

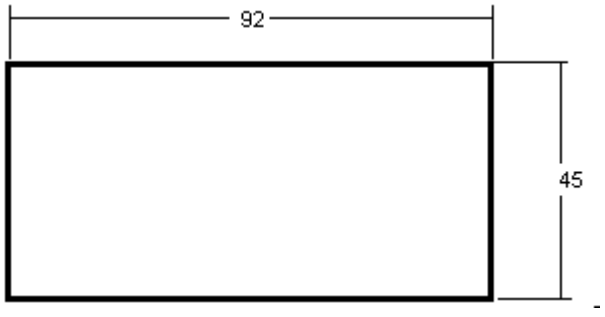


Jumper	Display
A	1.999
B	19.99
C	199.9
None	1999

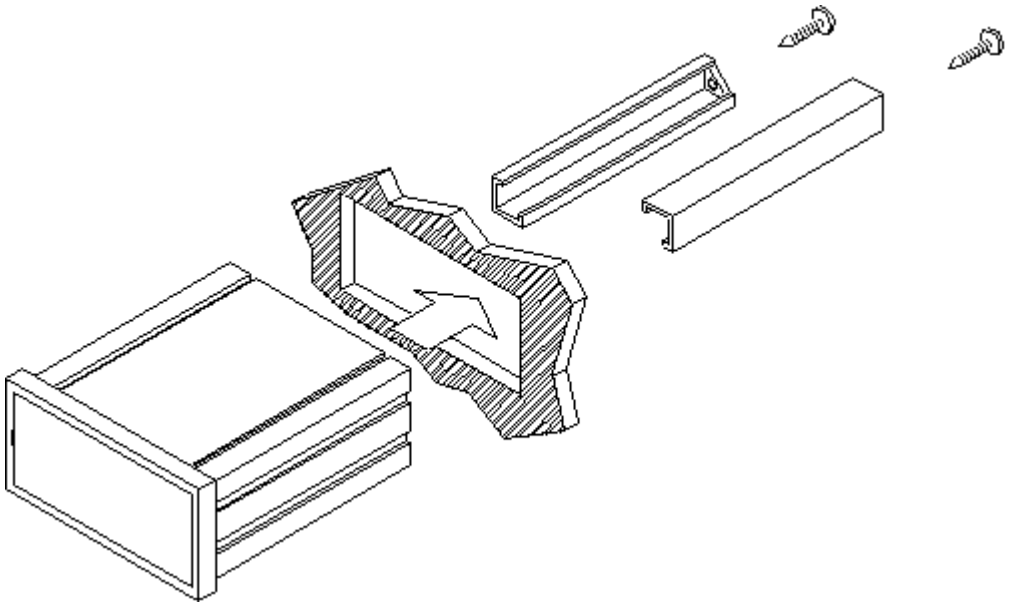
The zero and span adjustment is made via the potentiometers (W) and (Z) respectively, located to the upper, right side of the display. Turning clockwise increases the display readout.

The zero adjustment margin is ±3 counts.
The span adjustment margin is ±20% of F.S.

MOUNTING

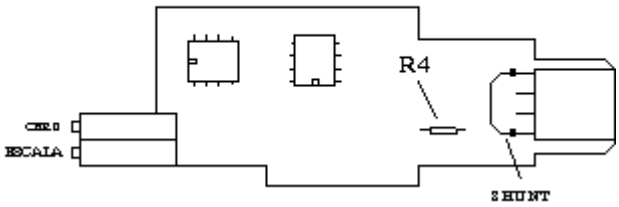


Panel cutout
Min. thickness : 0.8mm
Max. thickness : 10mm



SCALING

To change the scale, it is necessary to modifie the value of the internal shunt according to the table. This shunt is located in R4 when its value is 100, 10 or 1 ohm, and in the position "SHUNT" when it is of 0.1 or 0.01 ohm.



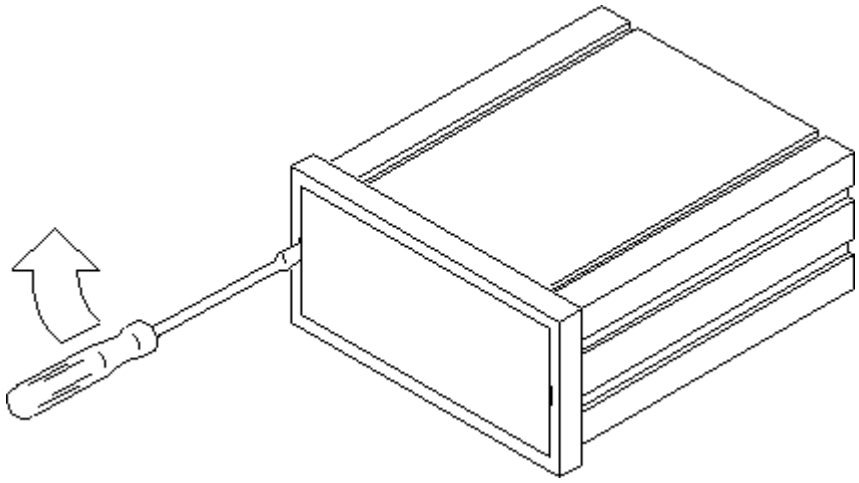
SCALE	R4	SHUNT
1.999mA DC	100ohm	
19.99mA DC	10ohm	
199.9mA DC	1ohm	
1999mA DC		0.1ohm
1.999A DC		0.1ohm
5.00A DC		0.01ohm

Shunts specifications:

Shunt 0.1ohm	Shunt 0.01ohm

diameter 0.35mm	diameter 1mm
lenght 28mm	lenght 23mm

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.
For further configuration unscrew the rear nut to take the circuits out from the front of the case.
To reinstall lens, insert it completely from one side and press from the other until it is fitted.



Warranty:
Press the icon to see it.

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