DITEL: PRODUCTS: DIGITAL STARS: **712S0Y0X**

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DESCRIPTION

Model 712S panel voltmeters are specific instruments for readout RMS values of sinusoidal signals up to 1000V.
Fully configured at the factory upon request, it is possible to modifie later the scale by changing internal plug-in jumpers.
Zero, span adjustment and decimal point location are accessible from the front behind lens.
Power and signal connection is realized by means of a 6-pin MAT-N-LOK AMP connector located at the rear of the unit.
These indicators are available in 700 or 7000 series. The latter provides one analog setpoint that can be made to operate within two modes of ON/OFF commutation and switching hysteresis.

SELECTION GUIDE

712	S	0	Y	0	X
PRESET/RELAY					
NO SETPOINT (Series 700)	0				
1 SETPOINT (Series 7000)	4				
SUPPLY POWER					
115V 50/60Hz			1		
230V 50/60Hz			2		
12V DC ISOLATED			4		
24V 50/60Hz			7		
24V DC ISOLATED			8		
SCALES					
19.99V					2
199.9V					3
1000V					4
UPON REQUEST					9
SILKSCREENED UNIT					

ORDERING EXAMPLE

7124 0203 E21 : AC voltmeter Series 7000 Supply power: 230V AC (50/60Hz) Scale: 199.9V AC. Unit: V AC 1 potent. adjustable analog setpoint

SPECIFICATIONS

INPUT SIGNAL

- Configuration   differential asymmetrical
- Maximum input voltage   1000V AC
- Input impedance   2.1Mohm
- Frequency max   500Hz
- Frequency min   40Hz
- Common mode max. voltage (signal/power)

AC voltage: 1000V DC or1500V ACpp
DC voltage: ±400V DC

POWER

- Supply voltages

AC (50/60Hz)   24, 115, 230V AC
DC (isolated)   12, 24V DC
- Maximum isolation   1000V DC or1500V ACpp
- Consumption   2.5 nominal

ACCURACY

- Resolution   0.05% F.S.
- Maximum error   0.2% F.S. ±1 digit

DISPLAY

- Type   red LED (0.4") 10mm. high
- Zero   automatic
- Decimal point   selectable by jumpers
- Overrange   ± 1999. (3 L.S.D. blanked)
- Reading rate   3 per second

ENVIROMENTAL

- Operating temperature   0°C to50°C
- Storage temperature   -25°C to+85°C
- Relative humidity   max. 95% (non condensing)
- Weight   310g
- Dimensions   72x36x110mm. (s/DIN 43700)
- Panel cutout   68x33mm. (s/DIN 43700)
- Case material   94 V-0 UL-rated polycarbonate
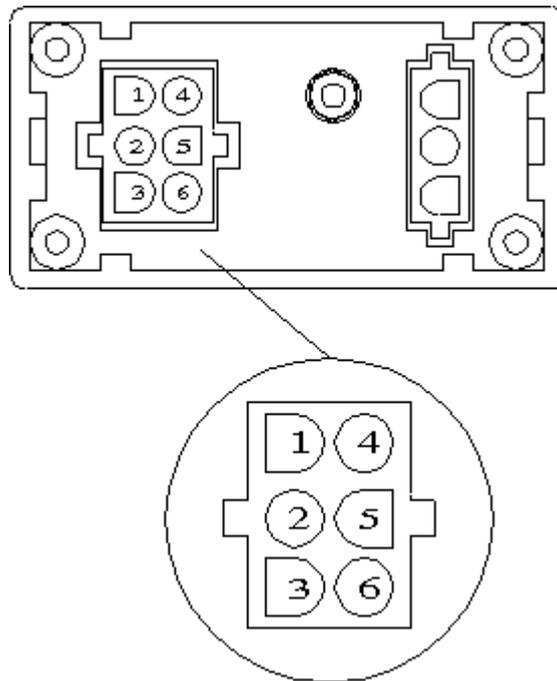
OPTIONS (SERIES 7000)

- 1 front panel screwdriver-adjustable setpoint with two modes of ON/OFF control and switching hysteresis.
SPDT relay (8A @ 250VAC or 8A @ 40VDC).

DIMENSIONS (mm)

VISTA POSTERIOR

OPCION 1 PISLA
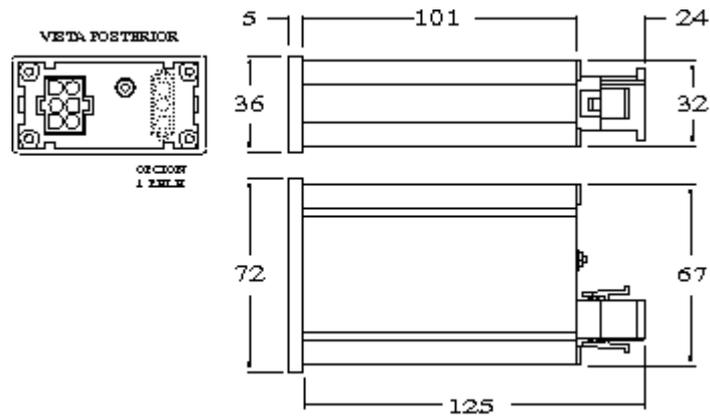
SIGNAL AND POWER CONNECTION

Input signal
PIN 1 Spare
PIN 2 AC input signal
PIN 3 AC input signal
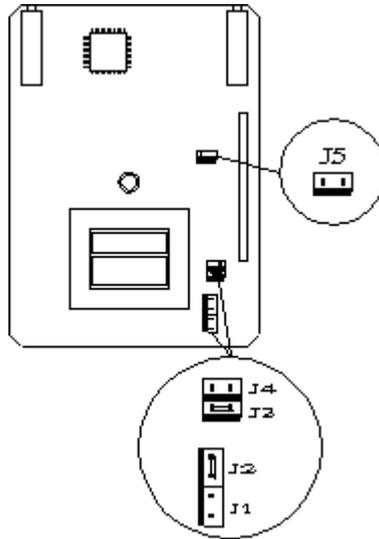
AC power supply
PIN 4 AC HI
PIN 5 Spare
PIN 6 AC LO (neutral)

DC power supply
PIN 4 DC positive (+)
PIN 5 Spare
PIN 6 DC negative (-)

Main circuit REF. 348A

To change the scale, perform the jumper wiring indicated in the table and place the decimal point to the proper position.
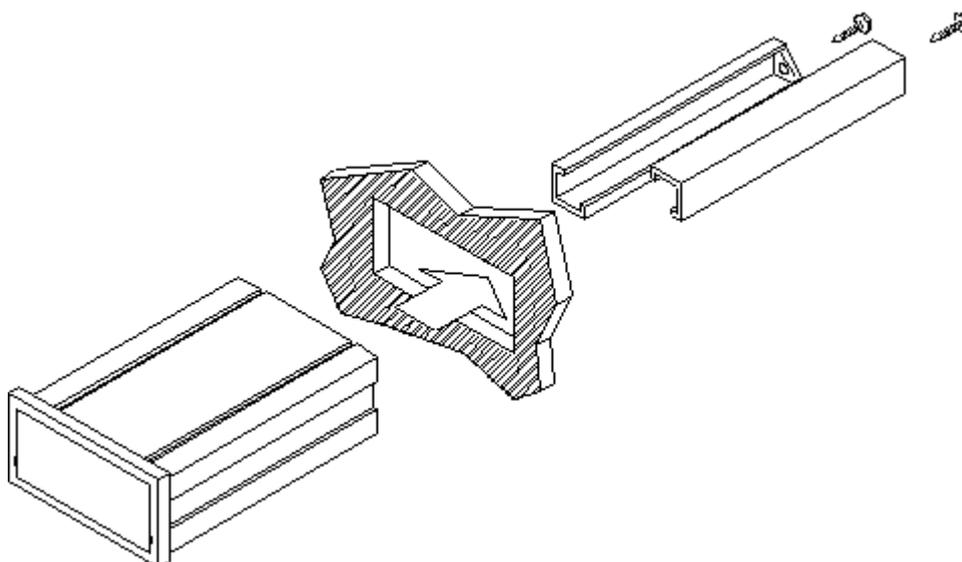
Scale	Jumpers
1000V	J2
199.9V	J1, J3
19.99V	J1, J3, J4

To configure the display to any range different from those listed in the table, perform the jumper settings that correspond to the most similar built- in range and adjust the span potentiometer to the desired readout.
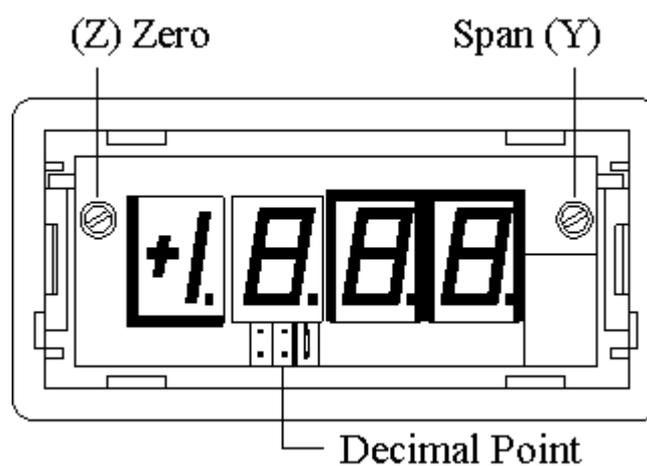
MOUNTING

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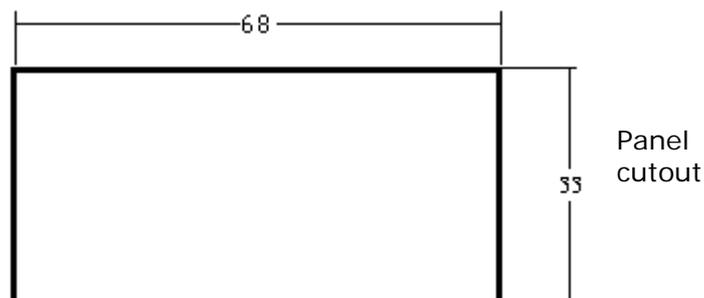
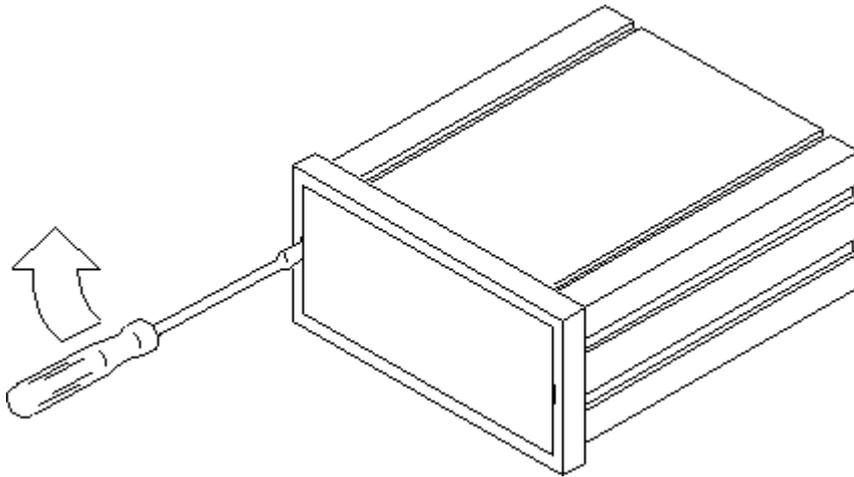Min. thickness: 0.8mm
Max. thickness: 10mm

SETUP AND CALIBRATION

Taking out the frontal lens provides access to zero, span adjustement and to decimal point location.
Place the appropiate jumper to locate the decimal point to the desired position according to the table.

Jumper	Display
A	1.999
B	19.99
C	199.9
ninguno	1999

ACCESS TO CONFIGURATIONS

Remove lens by placing an appropriate sized screwdriver in the slot and pushing laterally until the lips disengange. Unscrew the rear nut to lift 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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