

DIN 96x48mm RELAY OUTPUT TRIP METERS



TYPES: CSS-40 4 DIGIT TYPE (9999)
CSS-41 4½ DIGIT TYPE (19999)
CSS-50 5 DIGIT TYPE (99999)

FEATURES

- Measuring DCA, DCV, ACA, ACV, Hz
- Process signal inputs
- High accuracy, stability and resolution
- Easily programmable via thumbwheel switches
- Three relay output possibilities
- Optional excitation supply available
- CE marked

DESCRIPTION

A Din 96x48mm digital panel meter available in a 4 digit, 4½ digit and 5 digit option with either one or two relay setpoint outputs. If one output is ordered this can be designated as a Low or High output in the ordering and in the case of two relay outputs Low/Low, High/High, High/Low. Also an extra output is provided as a "GO" output. This meter combines the traditional but popular user friendly front panel thumbwheel type push button switches to set the setpoints with the latest microprocessor technology.

SPECIFICATIONS

Measuring accuracy (AC): 4 digit: $\pm 0.1\% FS \pm 1$ digit
 4½ digit & 5 digit: $\pm 0.04\% FS \pm 1$ digit

Measuring accuracy (other): 4 digit: $\pm 0.04\% FS \pm 1$ digit
 4½ digit & 5 digit: $\pm 0.02\% FS \pm 1$ digit

Sampling rate: Approx every 100mSec

Display: 14.2mm high red LEDs

Over-range indication: "OFL" displayed

Under-range indication: "-OFL" displayed

Relays output: SPDT: 115V/3A, 230V/2A AC1

Optional excitation supply: DC: 10V/35mA, 24V/25mA

Power supply: 115/230 VAC $\pm 15\%$, 50/60Hz
 12VDC, 24VDC, 48VDC

Power consumption: 4.5VA

Operating temperature: 0-55°C

Operating relative humidity: 20-90% RH

Temperature coefficient: ≤ 100 PM/°C (0-50°C)
 ≤ 50 PM/°C (23±3°C)

Storage temperature: -10°C to +70°C

Dielectric strength: AC 2.0KV for 1 min between input, output/s, power & case

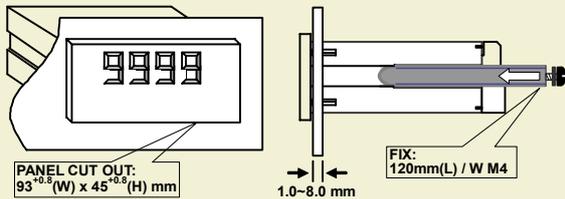
Protection: IP54



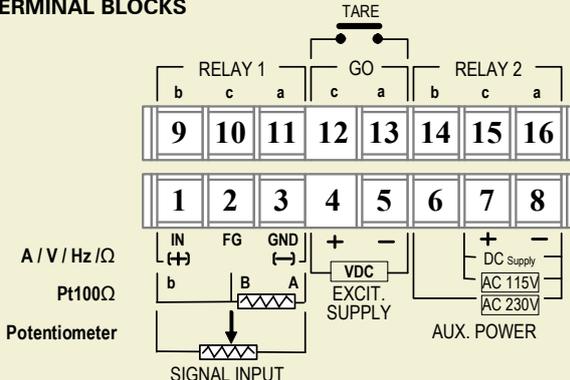
Measurement

	MEASURING RANGE	INPUT IMPEDANCE
CURRENT AC / DC	999.9 / 999.99uA	1K Ohm
	9.999 / 9.9999mA	100 Ohm
	9.99 / 99.999mA	10 Ohm
	1.000 / 1.0000A	1 Ohm
	5.000 / 5.0000A	0.02 Ohm
	10.00 / 10.000A	0.01 Ohm
VOLTAGE AC / DC	99.99 / 99.999mV	$\leq 5M$ Ohm
	999.9 / 999.99mV	$\leq 1M$ Ohm
	9.999 / 9.9999V	$\leq 1M$ Ohm
	99.99 / 99.999V	$\leq 1M$ Ohm
	150.0 / 150.00V	$\leq 1M$ Ohm
	300.0 / 300.00V	$\leq 1M$ Ohm
	600.0 / 600.00V	$\leq 1M$ Ohm
	1000 / 1000.0V	$\leq 1M$ Ohm
All Frequency Inputs		$\leq 1M$ Ohm
All Potentionmeter Inputs		$\leq 1M$ Ohm
All Resistance Inputs		$\leq 1M$ Ohm
All PT100 Inputs		$\leq 1M$ Ohm

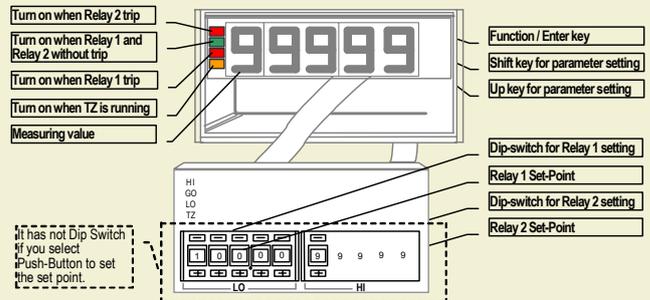
INSTALLATION



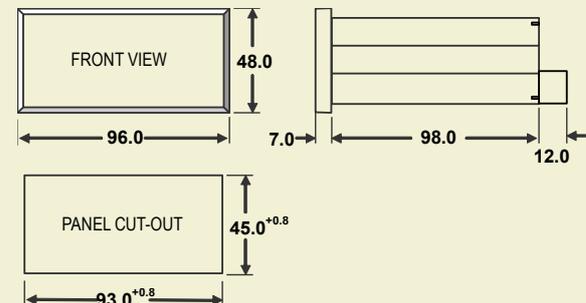
TERMINAL BLOCKS



FRONT PANEL



DIMENSIONS



■ **ORDERING INFORMATION** (The meter will be scaled exactly to your requirements)

DISPLAY	INPUT TYPE	INPUT RANGE	RELAY OUTPUT	OPTIONAL EXCITATION	AUX. SUPPLY
CSS-40 (4 digit) CSS-41 (4 1/2 digit) CSS-50 (5 digit)	D (VDC or ADC) A (VAC or AAC) TR (TRMS) F (Frequency) T (Temperature) P (Potentionmeter) R (Resistance 2 wire)	Insert input range from lists below, any custom signal is also generally possible.	L (Low) H (High) LL (Low / Low) HH (High / High) HL (High / Low)	10VDC Exc 12VDC Exc 24VDC Exc Specify	115/230VAC 24VAC 12VDC 24VDC 48VDC Specify AC Specify DC

INPUT RANGES						
CURRENT	VOLTAGE	STRAIN GAUGE	FREQUENCY & TYPE/LEVEL		POTENTIOMETER	PT100
0-100uA	0-50mV	1.0mV/V	0-10Hz	Open collect	50-10K Ohm	-50 to 0°C
0-1mA	0-60mV	1.25mV/V	0-20Hz	Volt free contact	10K-100K Ohm	-50 to +50°C
0-10mA	0-100mV	1.5mV/V	0-50Hz	5V pulse	Specify	-50 to +100°C
0-20mA	0-1V	2.0mV/V	0-100Hz	12V pulse		-50 to +200°C
4-20mA	0-5V	3.0mV/V	0-200Hz	24V pulse	Resistor (2 wire)	0 to 50°C
0-100mA	1-5V	4.0mV/V	0-500Hz	100-300VAC	0-100 Ohm	0 to 100°C
0-1A	0-10V	5.0mV/V	0-1KHz	300-600VAC	0-1K Ohm	0 to 200°C
0-5A	2-10V	10.0mV/V	0-2KHz	Specify	0-10K Ohm	0 to 400°C
0-10A	0-100V	20.0mV/V	0-5KHz		Specify	0 to 600°C
Specify	0-150V	Specify	0-10KHz			0 to 800°C
	0-300V		0-30KHz			-100 to + 100°C
	0-600V		Specify			
	0-1000V					
	-10 to +10VDC					
	Specify					

SCALING IF REQUIRED VIA CT's & VT's OR TO OTHER ENGINEERING UNITS