DIN 48x24mm 4 DIGIT, DIGITAL PANEL METER,

DISPLAY ONLY

TYPE: CS3S

FEATURES

196

- Measuring DCA, DCV, ACA, ACV & PT100 inputs
- **Optional TRMS versions**
- **Analogue signal inputs**
- High accuracy, stability & resolution
- Wide range of AC & DC auxiliary supplies
- Special scaling
- **CE** marked



Programming & set up buttons can be specified with "Visible Buttons" on the front panel or "Discrete Buttons" behind the front screen. If not specified. meter will be supplied with "Discrete Buttons"

DESCRIPTION & MODE OF OPERATION

Din 48x24mm 4 digit microprocessor based digital panel meters, available with a wide choice of both AC and DC voltage or current inputs including standard and non standard analogue signal inputs. PT100 temperature inputs can also be specified. The meters are can be programmed by four tactile switches that can be specified to be accessed directly on the front panel or specified as discrete, where the buttons are hidden behind the front screen. These meters are display only meters and have no outputs, for meters Din 48x24mm with outputs please see meter type CS3 on pages 198 &199

SPECIFICATIONS

Measuring accuracy (VAD): $\leq \pm 0.1\%$ FS ± 1 digit Measuring accuracy (VAA): $\leq \pm 0.2\%$ FS ± 1 digit Measuring accuracy (VAAT): $\leq \pm 0.2\%$ FS ± 1 digit Measuring accuracy (TR): $\leq \pm 0.1\%$ FS ± 1 digit \leq 100 PPM/°C Temperature effect: Sampling rate: 15 cycles / sec Response time: ≤ 100mSec (standard) Can be altered in set up

Display: 4 x red LED's Display range: -1999 to +9999 At any point or not at all

Decimal point: Maximum over range: Voltage x1.2 rated voltage continuous

Current x1.2 rated current continuous Aux. Supply: 5VDC (4.5-9VDC), 12VDC (9-18VDC), 24VDC (18-36VDC), 48VDC (36-72VDC) ADH 85-264VAC & 100-300VDC

Power consumption: AC: ≤1.5VA DC: ≤1W

0-60°C Operating temperature: **Operating humidity:** 20-95% RH

Dielectric strength: 2KV for 1 min, between input & aux. > 100M0hms @ 500VDC between input & aux

Insulation resistance: EMC: EN55011:2002 & EN 61326:2003

EN61010-1:2010 Low voltage directive: **Dimensions mm:** 48(W) x 24(H) x 78(D) Panel cut out mm: 45(W) x 22.5(H) ABS (UL 94V-0) Case material: Terminals: Screw max 2mm²

FEATURES

The following functions can be set up at the time of ordering, or programmed if required at a later date:

AvG to increase or decrease the response time, factory default 100mSec

dF iLT to increase filtering on noisy supplies possibly to be utilised in conjunction with AvG.

LoCUt to ignore induced readings at zero from leaky circuits or noise pick up, but not at the detriment of a real reading. For example if LoCUt value of 5 set, any reading of 5 or below is ignored, but when reading is genuinely say 100 the meter reads 100 and not 95

AoLS low scale point when scaling say to other engineering values, can be set from -1999 to +9999 the meter has the facility to also fine adjust

AoHS high scale point when scaling say to other engineering values, can be set from -1999 to +9999 the meter has the facility to also fine adjust

Further details and assistance on the above set up features are available from our sales office.

MEASUREMENT

VOLTAGE INPUT RANGE INPUT RESISTANCE		CURRENT INPUT RANGE INPUT RESISTANCE		TEMPERATURE INPUT RANGE INPUT RESISTANCE	
INPUT RANGE	INPUT RESISTANCE	INPUT RANGE	INPUT RESISTANCE	INPUT RAINGE	INPUT RESISTANCE
0-199.9mV 0-1.999V 0-19.99V 0-199.9V 0-300V 0-50mV 0-60mV 0-100mV 0-1V 0-5V	≥ 5M Ohms ≥ 1M Ohms ≥ 1M Ohms ≥ 1M Ohms ≥ 1M Ohms ≥ 2M Ohms ≥ 5M Ohms ≥ 5M Ohms ≥ 5M Ohms ≥ 5M Ohms ≥ 1M Ohms ≥ 1M Ohms ≥ 1M Ohms	0-1.999uA 0-1.999mA 0-19.99mA 0-199.9mA 0-1.999A 0-1A 0-1mA 0-10mA 0-20mA 4-20mA	≤ 1K Ohms ≤ 100 Ohms ≤ 10 Ohms ≤ 1 Ohm ≤ 0.05 Ohms ≤ 0.1 Ohms ≤ 100 Ohms ≤ 250 Ohms ≤ 250 Ohms ≤ 250 Ohms	PT100 PT1000	≥ 1M Ohms ≥ 1M Ohms

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ORDERING INFORMATION (The meter will be scaled exactly to your requirements, please specify any special scaling required and any scaling to other engineering units)

	INPUT TYPE	INPUT RANGE V	INPUT RANGE A	PT100/PT1000 INPUT RANGE	AUX. SUPPLY
CS3S-	VAD (VDC or ADC) VAA (VAC or AAC) VAT (TRMS) TR1 (PT100) TR2 (PT1000)	0-199.9mV 0-1.999V 0-19.99V 0-300V 0-50mV 0-60mV 0-100mV 0-1V 0-5V 0-10V 1-5V 2-10V Special specify	0-1.999uA 0-1.999mA 0-19.99mA 0-199.9mA 0-1.999A 0-1A 0-1mA 0-10mA 0-20mA 4-20mA Special specify	-199.9-800.0°C* -199.9-600.0°C** Special specify *TR1 **TR2	5VDC (4.5-9VDC) 12VDC (9-18VDC) 24VDC (18-36VDC) 48VDC (36-72VDC) ADH 85-264VAC 100-300VDC



Please also specify if front programming / set up buttons are to be "Visible" or "Discrete"

