

C53

86 Digital display



- > 5 Digit bright LED Display
- > Maximum, minimum, average
- > 2 alarm relays
- > Voltage, Current and RS232 outputs
- > 2 Programmable function keys
- > High speed analogue output
- > Auto Set-up routine available
- > Specially designed for LVDT use

The C53 Digital Display has been designed to work with Solartron's analogue gauge probes and displacement transducers. The software detection system allows the C53 to automatically detect the transducer stroke length. Alternatively it can be set manually.

C53 Benchtop option

The C53 can be supplied housed in a robust aluminium bench top case for working safely on benches. The rear panel includes: mains socket with on/off switch, one connector for LVDT input and three connectors for relay, analogue and RS232C output. Nominal dimensions: 170mm (w) x 74mm (h) x 220mm (d). Four 14mm (h) mounted feet. (Front feet are extendable to 48mm for tilting to enable maximum visual display. Mains extension cable supplied).

Plug-in and Play

The C53 can be purchased with an LVDT from Solartron, which can be set-up, with Setting Certificate showing your requirements.

Product type	C53
Power requirement	
Voltage Range (VAC)	90 to 265 (20 VA max)
Current Range (A)	0 to 5 full load
Frequency Range (Hz)	50 to 60
Display	
LEDs	5 green digits
Range	-19999 to 99999
Dimensions (mm)	14.7 high
Transducer Excitation	
Primary Voltage (VACrms)	Sinewave voltage 3 or 5 selectable
Primary Frequency (kHz)	2 to 5 or 5 selectable
Signal Input (Sensitivity range)	
Input Range (Vrms)	0.05 to 5
Input Load Resistance (k Ω)	100
Input Resolution	18 bit
Reading Rate (Hz)	2, 4 or 10 selectable
Signal Output	
Voltage Output (V)	0 to 10
Current Output (mA)	0 to 20, 4 to 20
Resolution	0.03% FRO, 5 mV or 0.01 mA
Output Ripple	<10 mV or 50 mA at 30 Hz
Temp. Coefficient (ppm/ $^{\circ}$ C)	<100
Warm-up (mins)	15 is recommended
Linearity (%FRO)	<0.2
Bandwidth (-3 dB)	63% in 33 mS, 99% in 100 m S
Alarm Relays	2 of changeover 1 A at 250 V
Environmental	
Operational Temp. Range ($^{\circ}$ C)	10 to +50
Storage Temp. Range ($^{\circ}$ C)	-10 to +70
Mechanical & Connections	Panel Mount version
Transducer	Rear panel terminal connection arrangement
Enclosure Size (mm)	48 x 96 x 173 (excluding bezel)
Panel Cut Out (mm)	44.5 x 93
Panel Thickness (mm)	1.5 to 9.5
Weight (g)	400 approx.