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ASL
HEIGHT OF PRECISION

F252 PRECISION THERMOMETER

The NEW F252 is a replacement Precision Thermometer to the F250.

The F252 is the fastest commercial AC Bridge of this precision and faster than any DC Bridge of similar specification. It is also the first AC Bridge to be launched with ASL 'smart probe' capability.

Features:

- Accuracy: +/-0.01°C over the full range
- Resolution: 0.001°C / 0.0001Ω
- Temperature ranges: -200°C to +962°C
- Display update rate: 500ms to full instrument performance
- Single, differential and alternate measurement
- 2 Channels as standard with optional 4 or 6 channels
- Expandable up to an additional 64 channels with multiplexers
- Common Inputs for both 'SMART' and passive Pt100's
- SMART probe review and editor
- LCD backlit display with numeric, statistical or graphical information
- USB as standard with optional RS232, IEEE or LAN interfaces
- Self calibrating against traceable external references
- F250 Legacy Interface commands



The F252 also comes with two channels as standard, but four and six channel variations are available with each channel able to work with up to 72 user-defined probes so providing spot on calibration. It also offers single, differential and alternative measurement modes.

Using calibrated probes with the F252 you can choose between storing the calibration data into the memory of the instrument or if using ASL 'SMART' probes can be entered into these. The 'SMART' probe data can also be reviewed and edited therefore easy calibration of ASL 'SMART' probes.

The F252 is capable of measuring temperature ranges to meet ITS90, CVD, EN60751 & IEC751 standards and results are delivered via a LCD backlit display with large numeric, statistical or graphical information. It also comes with USB interface as standard, but optional RS232, IEEE or LAN interfaces are also available.

F252 Specification

Temperature range	-200°C to +962°C, depending on PRT used
Instrument accuracy	+/-0.01°C over the full range
Resolution	0.001°C/°F/K 0.0001Ω (user selectable)
Display update rate	500ms to full instrument performance
Probe current	1mA constant current source
Probe types	Industrial PRTs and SPRTs with $R_o = 25\Omega$ and 100Ω up to an alpha of 0.00392
Data entry format	ITS90 coefficients, Callender Van Dusen coefficients or EN60751 and IEC751 for un-calibrated probes
Thermometer input connectors	2 (front panel), 2 or 4 (rear panel) 5 pin industrial DIN sockets can be used with passive or proprietary 'Smart connector'. Expandable up to an additional 64 channels with SB252 multiplexers
Cable length	Maximum 30 metres of 4-core 19/0.15 SPC/PTFE screened cable.
Optional interfaces	RS232, IEEE-488.2 or LAN Ethernet
Operating conditions	15°C to 35°C, 10-90% RH non condensing (15°C to 25°C for full range accuracy)
Power requirements	90-264VAC universal IEC320 input on rear panel, 47-63Hz, 25VA Max
Dimensions	260mm (w) x 80mm (H) x 270mm (D)
Weight	2.7Kgs