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ASL
HEIGHT OF PRECISION

NEW F600 SERIES

The F600 is a new series of high performance resistance thermometry bridges from ASL. The unique F600 series offers the latest technology in AC or DC measurement. Integrity of measurement has always been a hallmark of ASL instruments and the F600 series continues that tradition.

Now you can choose a low frequency AC bridge or switched DC bridge to meet your requirements.

- AC accuracy: $\pm 0.5\text{mK}$ at 0°C
- DC accuracy $\pm 0.8\text{mK}$ at 0°C
- Resolution 1ppm, 0.1mK
- 25(30)Hz-AC, or switched DC carriers
- Measures PRTs (AC & DC), NTC thermistors (DC)
- Channels expandable from 1 to 60 via multiplexers
- Measures ratio, ohms, $^\circ\text{C}$, $^\circ\text{F}$ or K
- Large multi function display
- Programmable analogue output
- Power save standby mode



NEW F600 SERIES

For the first time in its history ASL has produced a range of resistance thermometry bridges covering both AC and DC measurements, allowing you to choose the instrument best suited to your application or to compliment existing equipment.

The F600 series features a large graphics display, combining versatility with ease of use. As well as the flexible menu options on the display, the F600 also includes dedicated buttons to select common functions.

For multi-channel applications, the F600 series can be used with ASL's existing switch box systems.

Data can be recorded and stored on a PC through the ULOG temperature measurement and data acquisition software.

F600 AC

AC bridges totally eliminate thermal emfs generated in the probe or associated cabling. The F600 series operates at a low frequency of 25Hz (50Hz supply) or 30Hz (60Hz supply).

F600 DC

The DC version provides a switched DC sensor current to simulate the advantages of AC measurement. In addition to measuring PRTs the F600DC also measures NTC thermistors.



	F600 AC	F600 DC
Accuracy (ppm)	±2ppm of reading or 2 digits (which ever is greater)	±3ppm of reading or 3 digits (which ever is greater)
Accuracy (temperature)	±0.5mK at 0°C, ±2.5mK over range	±0.8mK at 0°C, ±4mK over range
Resolution	0.1mK	0.1mK
Range (ratio)	0 to 4.999 999	0 to 9.999999
Range (ohms)	0 to 5k	0 to 500k
Range (temperature)	-260 to +962°C	-260 to +962°C
Internal ref (ohms)	25 & 100	25, 100, 10K, & 100K
Carrier current (mA)	0.1, 0.2, 0.5, 1, 2, 5, 10 and √2 multiplier	0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5 10 and √2 multiplier
Carrier frequency	25 or 30 Hz (50 or 60Hz supply)	switched DC
Bandwidth/update rate	10, 5, 1, 0.1, & 0.01Hz	1, 2, 4, 10, 20 seconds, selectable
Analogue outputs	2	1
Communications	USB	USB
Supply voltage	90Vac to 264Vac	90Vac to 264Vac
Supply frequency	47 to 63Hz	47 to 63Hz
Operating temperature range	+15 to 25°C	+15 to 25°C
Operating relative humidity	< 80% non-condensing	< 80% non-condensing
Dimensions (mm)	150 x 455 x 450 (H x W x D)	150 x 455 x 450 (H x W x D)
Weight (kg)	9	7