



PFTS

Portable Flow Transfer Standards

- **Calibrate gas flow meters/controllers in-situ**
 - Reduce down time
 - Diagnose process problems
 - Improve process yield
- **High accuracy**
 - Linearised display provides a typical 5 fold improvement in uncertainty.
- **UKAS (ISO17025) certified**
 - Accepted by regulatory bodies
 - Aids QA compliance
- **Rugged case**
 - Protects the instruments from contamination and damage



Description

PFTS Series Portable Flow Transfer Standards provide an easy to operate, cost effective means of calibrating process flow meters and controllers. Available in full-scale ranges from 5 standardcm³/min (sccm) to 10,000 standard litres/min (slpm), nitrogen equivalent, the mass flow measurement is unaffected by line pressure or gas temperature. They can be supplied calibrated for nitrogen, with gas correction factors for other gases, or directly calibrated for the gas of your choice. A dedicated power supply/display is programmed to correct repeatable non-linearity, typically improving uncertainty by a factor of 5, and the whole system is covered by a UKAS (ISO17025) calibration certificate.



Operation

The PFTS can be conveniently carried to the device under test (DUT) in its case. The flow transfer standard should be connected in series with the DUT and its power supply/display connected to a suitable mains supply (mains cable and 3m interconnecting cable supplied). They should then be left to warm up and stabilise for 30 minutes, prior to isolating the gas supply and zeroing them. The flow transfer standard can then be compared against the DUT at various points through its range

Flow Transducer	
Full-scale range	Any between 5 sccm and 10,000 slpm (nitrogen equivalent)
Units of measure	Can be specified
Gas line connection	Compression or face seal fittings
Uncertainty	Basic +/-1% FS, linearisation improves to 0.2% FS (typical).
Temperature coefficients (0-50°C): Zero Span	+/-0.1% FS/°C (typical) +/-0.15% of reading/°C (typical)
Maximum working pressure	34 bar (500 psi), Optional 68 bar (1000 psi)
Power Supply / Display	
Display type	5 digit linearising, 14.2mm red LED
Uncertainty	0.03% of reading plus 3 mV
Measurement resolution	16 bit
Acquisition speed	20 readings/second
Outputs	Optional retransmitted analogue input (after linearisation), RS232 or RS485
Power requirements	90-240 VAC, 50/60 Hz, 15 VA
Case	
Material	Ultra high impact structural copolymer shell with high density foam padding
Protection	Air and water tight, dustproof, chemical resistant and corrosion proof



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