


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>0054</p> <p>Accredited to ISO/IEC 17025:2005</p>	Avery Weigh-Tronix Calibration Service	
	Issue No: 027 Issue date: 10 September 2008	Contact: Mr M Moran Tel: +44 (0) 121 568 1407 Fax: +44 (0) 121 697 5407 E-Mail: MMoran@awtxglobal.com Website: www.averyweigh-tronix.com
Foundry Lane Smethwick Warley West Midlands B66 2LP		
Calibration performed at the above address only		

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Best Measurement Capability Expressed as an Expanded Uncertainty ($k=2$)	Remarks
FORCE Proving devices, load cells and other force-measuring devices in compression and tension modes	Machine No. 1 From 3.0 kN up to 11 kN 0.45 kN up to 11 kN 0.20 kN up to 11 kN 0.04 kN up to 11 kN	0.006% 0.009% 0.02% 0.06%	1. The uncertainty figures show the best accuracy of application of the calibration force and do not take into account the characteristics of the device being calibrated. 2. The calibration procedure used may be either in accordance with BS EN ISO 376:2004, ASTM E74-06, ISO 376:2004 or in house procedure AP-1-6059. 3. Forces can be applied by increment and decrement thus permitting the determination of hysteresis errors. 4. The force standard machines above apply force in terms of the technical unit, the pound-force (lbf). Calibrations may, however, be made in terms of the newton (N) ton-force (tonf) or kilogram-force (kgf). 5. Load cells are calibrated in units of force. Calibration of load cells and other force-measuring devices shall be in accordance with UKAS approved procedures. 6. Load cells are calibrated at various temperatures and with humidity cycling according to UKAS approved procedures, or to the requirements of OIML R60 2000 (E), OIML R60 - Annex D Edition 2000 (E) and Avery Weigh-Tronix Procedure AP-1-6037 for load cells of accuracy Class C and D up to a number of verification intervals consistent with the measurement capabilities above.
Proving devices, load cells and other force-measuring devices in compression mode	Machine No. 2 From 100 kN up to 500 kN 15 kN up to 500 kN 5.5 kN up to 500 kN	0.006% 0.008% 0.050%	
Load cells in compression and tension modes at various temperatures and with humidity cycling	Machine No. 3 From 2.2 N up to 356 N	0.005%	
Load cells, with digital output, in compression and tension modes at various temperatures and with humidity cycling. In addition, span stability and variable voltage based on tests in OIML R76-1 1992E	-10°C to 40°C	Temperatures 0.3°C Voltage 0.5µV Force as item 1 Barometric pressure 1m bar Humidity 3% See Notes 6 and 7	
		of calibration force See Notes - 1, 2, 3, 4 and 5	



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			NOTES cont'd 7. Temperature and humidity measurements are of the air surrounding the load cell after allowing a suitable time to obtain stability.
END			