BAUGH & WEEDON NDE

LUMAFLUX 4D

"Six Meters in One"



- White Light Meter.
- UV Light Meter.
- Tangential Field Strength Meter.
- Shot Timer.
- Pie Gauge
- Display of Magnetic Waveform.

- Excellent Accuracy and Stability in all Measurement Modes.
- Robust Enclosure and Protective Rubber Boot
- Ergonomic Design, High-Quality Keypad.
- Hi-Resolution 320 x 240 Display with Programmable Colours.
- Lightweight, Rugged and Compact.
- Detachable Probe and Cable for Convenience, Lower Maintenance Costs.

The LumaFlux 4D meter from Baugh & Weedon expands on the popular 3D model which combined a Dual UV / White Light Meter and Tangential Field Strength Meter in one rugged Instrumentation package. Now the LumaFlux 4D has Six Operation Modes equivalent to the function of 6 different gauges and tools. The new Pie Gauge simulation, enables operators to better visualise the magnetic field direction generated during MPI inspections. Other new features include an MPI Shot Timer plus Waveform Imaging Mode, which displays an image view of the waveform shape generated in all three axes.

Specification - MagnaCheck 4D Probe Function

Feature	Details		
Measurement Range	To 2000 Gauss	Measurement Accuracy	1%
Units	Gauss, mTesla, Ka/m		
Frequency Range	40Hz-410Hz		
MPI Bench Support	True RMS for Thyristo switched fields		
Peak Hold Mode	Off, 1,2, 5 and 10 seconds		
Measurment Sample Rate	70 samples per second		
Measurement Resolution	0.16 Gauss		
Waveform Display	Yes		
Field Direction Display	Yes		
Shot Timer	Yes		
4D Sensor	Yes, Auto recognition		
Sensor Calibration	Stored digitally in the probe		
Standard Compliance	ASTM E1444/1444M-16 and EN ISO 9934-3		
Zeroing	Manual Zero with null pot supplied		
Display Size/Resolution	70mm (2.8”), 320 x 240 pixels		
Power	2 x 1.5 AA batteries		

Specification - Dual UV & White Light Meter Function

Feature		Details
Measurement Range	White Light UV Light	5 lux to 10,000 lux 0 to 10,000 uW/cm^2
Resolution	White Light UV Light	0.1 lux below 10 lux 0.15 to 10μW/cm^2 (micro watts per square centimetre)
Units	White Light UV Light	Foot Candles (ft-c or fc or lm/ft) or Lux μW/cm^2 (micro watts per square centimetre)
Display		70mm (2.8") 320 x 240 colour display. LCD with selectable backlight
Screen		5 readings per second
Conversion rate		100 ms
Resolution		Up to 0.1 Lux & 0.1 μW/cm^2 (configurable)
Dimensions		163mm (6.4") (h) x 80mm (3") (w) x 25mm (1.0") (d) With rubber boot: 168mm (6.6”) (h) x 85mm (3.3”) (w) x 30mm (1.2”) (d)
Weight		350g (0.77lbs) including batteries.
Power		2 x 1.5V AA Alkaline batteries
IP Standard		IP54
Resolution		Adjustable in Menu system
Overall Accuracy		+/- 3% measured against primary standard
Temperature Co-efficient		less than+/- 0.01%/C (0 to 50^{o}C)
Irradiance Range		UV-A 0-10000 μW/cm^2 Visible: 0 -10,000 lux
Spectral Range		UV-A 320-400nm, Visible 460-680nm

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