

FlowScout SE

Single-ended test set

FEATURES

- Verifies fibre continuity and insertion loss at 1430nm using AFL Optical Reflectors so there's no need for access at both ends.
- Combines an optical light source and power meter in one compact unit to reduce equipment needs and simplify field testing.
- Detects excess reflection and displays Optical Return Loss (ORL) to identify issues like dirty or damaged connectors.



EMITTER TYPE	Laser
SAFETY CLASS [1]	Class I
FIBRE TYPE	Single-mode; compatible with all G.652, G.655, and G.657 SMF
CALIBRATED WAVELENGTHS	1430 $\pm$ 5nm; 1550 $\pm$ 20nm
CENTRE WAVELENGTH	76cm drop
SPECTRAL WIDTH (FWHM)	$\leq$ 5nm
OUTPUT POWER LEVEL	-1dBm to -4dBm CW
OUTPUT POWER STABILITY	$\pm$ 0.1dB over 1 hour (after 1 minute warmup)
DETECTOR TYPE	InGaAs PIN
DETECTION RANGE	Reflector detected / not detected up to 20km (18mi) with optical loss $\leq$ 9dB at 1430nm & 1550nm and 1550nm ORL $\geq$ 25dB
INSERTION LOSS MEASUREMENT RANGE	At least 10dB when ORL $\geq$ 25dB at 1550nm At least 6dB when ORL in range 14dB – 20dB at 1550nm
LOSS ACCURACY	$\pm$ 1.0dB for loss in range 0dB to 6dB
LOSS RESOLUTION	0.1dB
MEASUREMENT UNITS	Loss in dB; ORL in dB
SIZE (IN BOOT)	14cm x 8.1cm x 3.8cm
WEIGHT	$\leq$ 0.3kg
OPERATING TEMPERATURE	-10°C to 50°C, 0 to 95% RH (non-condensing)
STORAGE TEMPERATURE	-30°C to 60°C, 0 to 95% RH (non-condensing, batteries installed)
BATTERY POWER	2 x AA alkaline batteries; user-replaceable
AC POWER	Optional external AC power supply (100-240 VAC, 50-60 Hz; 5VDC at 2A)
BATTERY LIFE	Typical 120 hrs, minimum 75 hrs (continuous operation, backlight off)
DISPLAY	Backlit monochrome LCD
SHOCK AND VIBRATION	Drop test, 1m, 6 planes
OPTICAL PORT	Fibre-coupled, 2.5mm ceramic ferrule plus SC/APC connector adapter
DUST CAP	Captive dust cap mounts over SC/APC connector adapter