

Quickly and Easily Verify Continuity and Insertion Loss From One End

US Patent Pending



FlowScout SE100 with 1430 nm Wavelength Optical Reflector

Features

- Verifies fiber continuity and insertion loss at 1430 nm from a single end
- Excess reflection (low ORL) detection at 1550 nm
- Live fiber detection and reporting
- Built-in optical continuous wave (CW) reflectometer
- Combines light source and power meter into a single unit

Applications

Used to verify:

- FTTH continuity and insertion loss during service activation or troubleshooting
- FTTA continuity and insertion loss between Distribution Unit (DU) and Radio Unit (RU)
- Fiber backhaul continuity and insertion loss to demarcation point

AFL's FlowScout SE100 is designed to verify fiber continuity and measure insertion loss to the end of fibers terminated with AFL's 1430 nm Wavelength Optical Reflectors. When a reflector is detected, the FlowScout SE100 immediately reports its presence (confirming continuity to the reflector) and measures insertion loss to the reflector at 1430 nm wavelength. The reflector is near-transparent to PON and other wavelengths, allowing it to remain installed during network operation.

Reduce cost: Combining an optical light source and power meter into one low-cost test set, the FlowScout SE100 enables a single technician to verify continuity and measure insertion loss, reducing equipment costs by over 38% and labor costs by over 50%.

Shorten test time and eliminate setup errors: Traditional two-ended testing requires equipment configuration and test coordination. FlowScout SE100 eliminates time-consuming setup and technician coordination time. It also speeds up testing by reducing visits to subscriber premises, demarcation points, and cell tower climbs.

Enhance customer experience: The FlowScout SE100 eliminates the need for onsite troubleshooting of FTTH drop issues. All testing can be completed from a distribution panel or splitter, eliminating technician time at the subscriber premises and overcoming scheduling and access challenges for both subscribers and service providers.

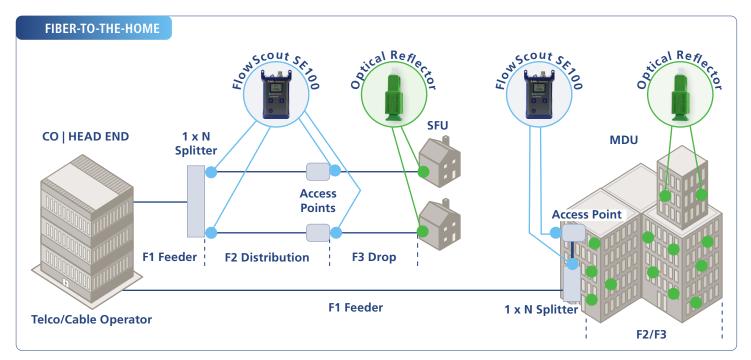
Increase technician safety: Repeated tower climbs for troubleshooting FTTA fibers are eliminated by using the FlowScout SE100 to test from the ground to optical reflectors installed at the Radio Unit.

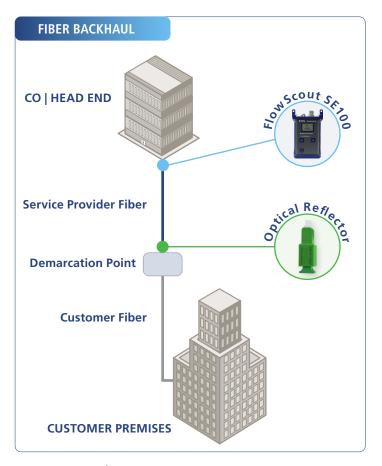
Ensure integrity of test results: FlowScout SE100 alerts the user when excess reflection or a live signal is present on the tested network. Reflection issues from damaged, open, mismatched, or dirty connectors often result in poor network performance. FlowScout SE100 immediately alerts the user and displays ORL when excess reflection is present.

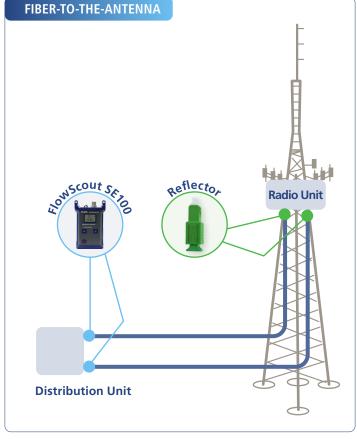
Complements subscriber-installed ONT initiatives: Reducing the need for FTTH premises visits, the FlowScout SE100 solution supports service provider goals to reduce costs by adopting a subscriber self-install ONT methodology.



Example Applications









PRODUCT HIGHLIGHTS



Easy to Use



Brightness Control



Battery Operated



Handheld



USB Power Port / Software upgrades

Single SC/APC Connection

Simply plug In the fiber connector and get readings in >5 sec!

Large LCD display

Multi-function screen clearly shows all measurements and prompts

Clear color-coded readings

LED indicators allow you to view if reflector is detected in seconds

Easy, one-handed operation

Easily one hand operation. Large buttons for easy operation

Durable design for field use

Protective rubber boot for in-field durability and reliability



Specifications^a

Emitter Type				
Safety Class b Class I Fiber Type Single-mode; compatible with all G.652, G.655, and G.657 SMF Calibrated Wavelengths 1430 and 1550 mm Center Wavelength 1430 ± 5 mm; 1550 ± 20 nm Spectral Width (FWHM) ≤ 5 mm Output Power Level -1 to -4 dBm CW Output Power Stability ± 0.1 dB over 1 hour (after 1 minute warmup) Detector Type InGaAS PIN Detection Range Reflector detected / not detected up to 20 km (18 mi) with optical loss ≤9 dB at 1430 & 1550 nm and 1550 nm ORL ≥25 dB Insertion Loss Measurement Range Loss Accuracy ± 1.0 dB for loss in range 0 to 6 dB Loss Resolution 0.1 dB Measurement Units Loss in dB; ORL in dB GENERAL Size (in boot) 14.0 x 8.1 x 3.8 cm (5.5 x 3.2 x 1.5 in) Weight 50.3 kg (≤0.7 lb) 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) Battery Power 2 x AA alkaline batteries; user-replaceable AC Power Optional external AC power supply (100-240 VAC, 50-60 Hz; 5VDC @2A) Battery life Typical 120 hrs, minimum 75 hrs (continuous operation, backlight off) Display Shock and vibration Droy test, 1 m, 6 planes Optical port Fiber-coupled, 2.5 mm ceramic ferrule plus SC/APC connector adapter	OPTICAL			
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Optical port Fiber-coupled, 2.5 mm ceramic ferrule plus SC/APC connector adapter	Display	Backlit monochrome LCD		
	Shock and vibration	Drop test, 1 m, 6 planes		
Dust Cap Captive dust cap mounts over SC/APC connector adapter	Optical port	Fiber-coupled, 2.5 mm ceramic ferrule plus SC/APC connector adapter		
	Dust Cap	Captive dust cap mounts over SC/APC connector adapter		

Notes:

- a. All specifications valid at 25°C unless otherwise specified.
- b. FDA 21 CFR 1040.10 and 1040.11; IEC 60825-1:2014



Ordering Information

FlowScout SE100 kits include the FlowScout SE100 test set, SC/APC to SC/APC patch cord to connect to network under test, reference 1430 nm Wavelength Optical Reflector, wrist strap, and Quick Reference Guide in a convenient soft carry case.

DESCRIPTION	AFL NO.
FlowScout SE100 Single-Ended Test Set	SE100-00-0901PR

Accessories

DESCRIPTION	AFL NO.			
ACCESSORIES INCLUDED WITH SE100-00-0901PR KIT				
1430 nm Wavelength Optical Reflector, SC/APC, female-to-male, plug type	8700-03-1430MZ			
Universal flip-top dust cap for UCI outputs	8800-00-0072PR			
Single-mode test jumper, SC/APC to SC/APC, 2 m, 3 mm jacketed	8700-00-0218MR			
Wrist atrap	1400-05-0230PZ			
Soft carry case with strap	1400-01-0107MZ			
ADDITIONAL OPTIONAL ACCESSORIES				
SC/APC adapter for optical port	2900-50-0011MR			

DESCRIPTION	AFL NO.
USB — Micro-B cable, 5 pin, 6 ft	6000-00-0031MR
AC Adapter (shipped with one power plug of customer choice; select one from plugs listed below)! • 4050-00-0030EUMR EU Power plug for AC charger	4050-00-0034MR
 4050-00-0030USMR US power plug for AC charger 4050-00-0030SAAMR CN/AUS power plug for AC charger 4050-00-0030UKMR UK power plug for AC charger 	
FlowScout SE100-facing APC female to APC male field-replaceable Port Saver SMF $$	2900-58-0001MR
One-Click Cleaner Mini 500 SC, ST, FC; 500+ Cleans	8500-05-0009MZ

Recommended Products



FOCIS Flex Connector Inspection

- Self-contained, tether-free, hand-held inspection solution
- Auto-focus and auto-centering for fast, easy inspection
- IEC, IPC and user-defined pass/fail analysis



One-Click® Cleaners

- Patented single-action
- Variety of sizes and types
- Low cost per clean



VFI4 Visual Fault Identifier

- Eye-safe Class 3R visible red laser source, 650 nm
- Output power of ≤ 5.0 µW with 10 km range
- Universal connector interface for quick connection

Qualifications

CATEGORY	REGULATION/STANDARD	QUALIFICATION		
CE Marking	EU	Compliant to relevant EU Directives on health, safety, and environmental protection, and certified with CE marking		
UKCA Marking	UK	Compliant to relevant UK Directives on health, safety, and environmental protection, and certified with the UKCA marking		
	IEC	Compliant to IEC 61010-1 for safety requirements for electrical equipment		
Safety/EMC/EMI	EN	Compliant to EN 61010-1 for safety requirements for electrical equipment		
	IEC	Compliant to IEC 61326-1 for EMC requirements for electrical equipment		
	EN	Compliant to EN 61326-1 for EMC requirements for electrical equipment		
	EN	Compliant to EN 55011 for EMC requirements for industrial, scientific and medical equipment		
	FDA	Compliant to code of federal regulations FDA 21 CFR 1040.10 and 1040.11 on laser products		
	IEC	Compliant to IEC 60825-1 for safety of laser products		
RoHS	EU	Compliant to EU regulations Directive 2011/65/EU (RoHS 2) and Directive 2015/863 (RoHS 3)		
Generic Requirement	IEC	Compliant to IEC 61315 for requirements on calibration of fibre-optic power meters		

Contact Sales@AFLglobal.com to schedule a demonstration or learn how to buy.

Visit www.AFLglobal.com/Test to learn more about complementary AFL fiber optic test and inspection products.

International Sales and Service Contact Information available at www.AFLglobal.com/Test/Contacts