

ARGUS® FIBER FEATURES

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3xOPM / 5xOPM

ARGUS® 300 F300 260 F240

3xOPM: measuring ranges: 1577 & 1490 nm (filtered): from -40 to +6 dBm; 1270 to 1625 nm (broadband): from -50 to +10 dBm

5xOPM: Measuring ranges downstream (OLT socket): 1577 & 1490 nm (filtered): -40 to +7 dBm (max power +12 dBm); 1550 nm (filtered): -50 to +15 dBm

5xOPM: Measuring ranges upstream (ONT socket): 1310 nm (filtered): -50 to +10 dBm; 1270 nm (filtered): -50 to +10 dBm

Accuracy: 3xOPM: ±0.5 dB; 5xOPM: filtered ±0.5 dB

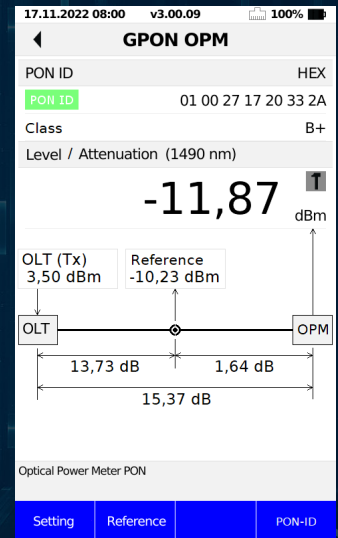
5xOPM: Insertion loss: approx. 1.5 dB

5xOPM: Alien ONT detection (burst + permanent)

Calibration conditions: -20 dBm, 23 °C ±5 K

Connectors: SC/APC, SFP+, LAN4 10 GBase-T

Readout of PON ID and XGS-PON ID via SC/APC, detection up to ≥ -30 dBm



OTDR

ARGUS® 300 F300

For troubleshooting on optical lines

Acceptance measurement and line analysis

Automatic, Expert or Real Time Mode (up to 4 Hz)

Wavelengths: 1310 and 1650 nm (± 20nm) or 1310 and 1550 nm (± 20nm)

Dynamic range: 20 dB at 100 ns; 37 dB at 1310 nm, 20 µs; 35 dB at 1650 nm, 20 µs

Event dead zone: 0.9 m; attenuation dead zone: 3.5 m; PON dead zone: ≤ 25 m; typical 20 m

Pulse width: 3, 5, 10, 20, 30, 50, 100, 200, 300, 500 ns; 1, 2, 3, 5, 10, 20 µs

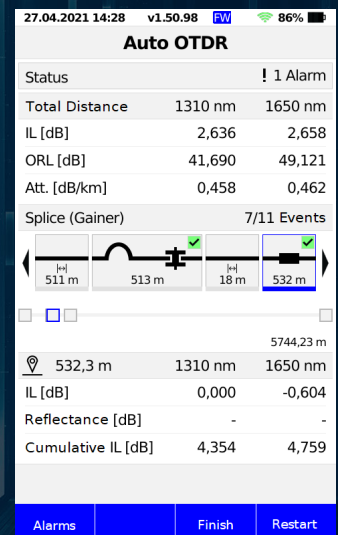
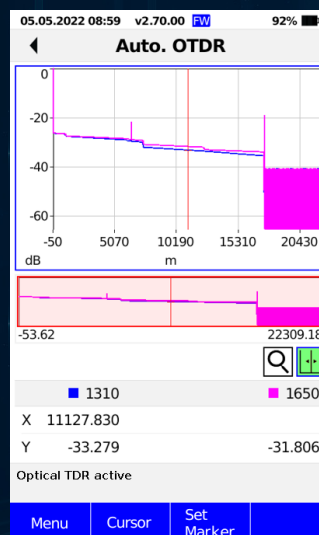
Display range: 250, 500 m; 1, 2, 5, 10, 15, 20, 40, 80, 160, 240 km (Max. range depends on fiber type (attenuation/km))

Measuring points: up to 300,000 points

Resolution: 5 cm to 32 m

Distance accuracy: ± (1 m + 0.003 % * distance + resolution)

Linearity: ± 0.05 dB/dB



Fiber Inspection Tool

ARGUS® 300 F300 260 F240



USB video microscope for the ARGUS® for optical fiber inspection that detects scratches and defects on optical fibers

Manual focusing with sep. button

Optional: autofocus

Digital zoom

Pass/fail evaluation according to IEC 61300-3-35

Min. particle size 0.5 µm

Various tips/adapters included

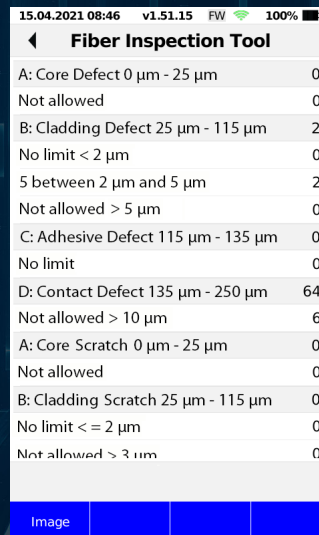
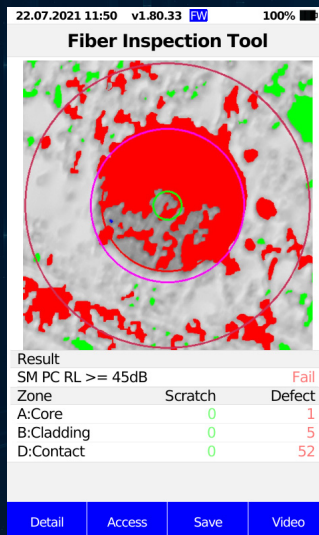
PC, UPC, APC, others on request

Single mode / Multi mode

Maximum resolution of the camera: 1600 px x 1200 px (approx. 2 MP)

Field of view: 680 µm x 510 µm

LED to illuminate the fiber end face



ONT Simulation (GPON/XGS-PON)

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GPON/XGS-PON modem simulation, ONT, CPE via GPON/XGS-PON transceiver; ITU-T G.984 (GPON), ITU-T G.9807.1 (XGS-PON)

GigaBit Passive Optical Network (GPON); 10 GigaBit Symmetric Passive Optical Network (XGS-PON)

DDM (Digital Diagnostic Mode) according to SFF-8472

Link Status

ONT Status / OLT Tx Power

Optical Network Unit ID (ONU ID)

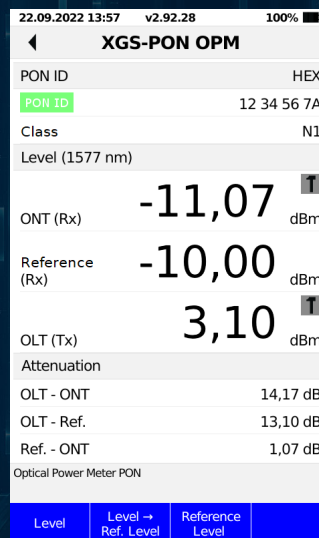
Passive Optical Network ID (PON ID, Vendor + Equipment ID / Version)

GPON-/XGS-PON bridge/router; GPON/XGS-PON status trace

Serial number / password configurable

Scan PLOAM message (ONU ID, S/N)

Opt. level (Rx), ± 3 dB; opt. path attenuation in dB



Performance Tests

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PON protocol setup (PPP) with speed and triple play tests, OLT port determination and separate GPON trace

Support for various SFP modules for fiber (FTTx) and ETH (Active Ethernet) tests, with SFP+ as an option

ARGUS® 300/F300/260/F240 only: 2.5 Gigabit Ethernet interface for even faster in-service speed tests via IPv4 and IPv6

HTTP/FTP up/download tests, IP ping, traceroute, bridge, PC and router mode

iperf: client/server mode, TCP throughput, down-/upload, ARGUS® vs. ARGUS®

ARGUS® Real Speed test with evaluation of TCP throughput according to RFC 6349 with up to 10 Gbit/s

ARGUS® 300 only: Out-of-service tests such as Loop, Traffic Generator, RFC2544 and Y.1564 (ARGUS® Real Speed)

