

ARGUS® F200

B A S I C F I B E R T E S T E R

Sel.
OPM

xPON-
ID

Through
Mode

GPON

XGS-
PON

FTTH

FIT

OLS

VFL

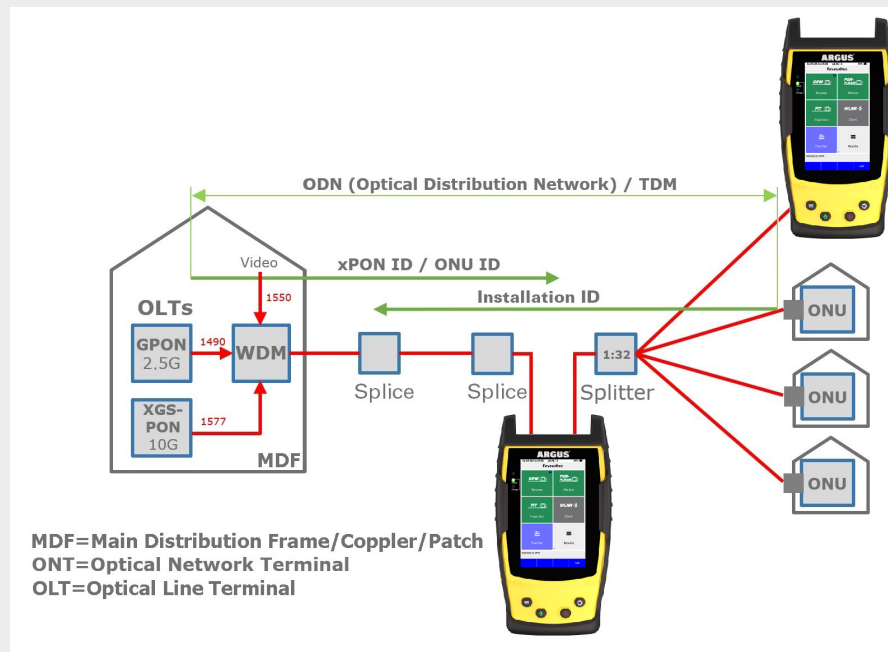
WLAN



data sheet: technical data subject to change.

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ARGUS® F200: The basic fiber tester

The ARGUS® F200 is a specialized selective power meter, designed for use in GPON and XGS-PON networks.

Modern design and new housing concept

With its robust and even more compact design than its predecessors, the ARGUS® F200 is ideally suited to the demands of daily field service use. The device is equipped with a user-friendly touchscreen and the familiar intuitive ARGUS® menu navigation.

Tests on mixed optical fiber accesses

The ARGUS® F200 supports measurements at three or optionally five wavelengths. The selective 5-fold powermeter can be switched into an existing PON connection in through mode, enabling the optical levels on the different downstream (OLT) and upstream (ONT) wavelengths for GPON, XGS-PON and a video overlay to be determined simultaneously and precisely using five separate filters. Other transmitters that may be on the line (so-called Alien-ONT) can be detected. In addition, the PON ID can be read from the PLOAM message. A PLOAM monitor scans all ONU IDs and serial numbers of connected ONTs on a PON branch.

Additional features

The ARGUS® F200 also features optional WLAN management and 2.4GHz wireless technology. In addition, the Fiber Inspection Tool can be connected via USB, which detects scratches and defects on optical fibers and displays them as a video image and in tabular form.

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intec Gesellschaft für Informationstechnik mbH has been successfully developing products for the international telecom markets for more than 35 years. Meanwhile specialized in highquality telecommunication measuring devices, we belong to the leading suppliers of fiber optic, G.fast, xDSL and IP measuring technology in Europe and beyond.

Our ARGUS® testers are ideal for developing and documenting new fiber optic infrastructure for the rapid expansion of modern optical networks. They simplify day-to-day work in the maintenance and testing of modern copper-based broadband interfaces as well as in the fiber-optic sector and support troubleshooting and fault location.

Our customers have appreciated the quality of our products and services for many years. This trust in our products has enabled us to supply more than 100,000 ARGUS® testers throughout the world during the last 20 years – a large majority of which have been delivered to international companies such as Deutsche Telekom, Vodafone, Telefonica, KPN or A1 Telekom Austria.



ARGUS® MADE IN GERMANY

Specifications Fiber Tests:

General:	Application, Settings + Results:		
Selective xPON-OPM for GPON / XGS-PON 3xOPM	- Measuring range: 1577 & 1490 nm (filtered): from -40 to +6 dBm 1270 to 1625 nm (broadband): from -50 to +10 dBm	- Accuracy: ± 0.5 dB - Calibration conditions: -20 dBm, 23°C ± 5 K - Connector: SC/APC	- Readout of PON ID and XGS-PON ID* via SC/APC, detection up to: - GPON ≥ -29 dBm - XGS-PON ≥ -27 dBm * The network must provide the ID for this.
Selective Through Mode xPON-OPM for GPON/ XGS-PON 5xOPM	- Measuring range: - Downstream (OLT socket): 1577 & 1490 nm (filtered): from -40 to +7 dBm (max. power +12 dBm) 1550 nm (filtered): from -40 to +15 dBm - Upstream (ONT socket): 1310 & 1270 nm (filtered): from -35 to +10 dBm (max. power +13 dBm)	- Accuracy: filtered ± 0.5 dB - Insertion loss: 1.5 dB - Alien ONT detection (burst + permanent) - Calibration conditions: -20 dBm, 23°C ± 5 K - Connector: 2x SC/APC (ONT + OLT)	- Readout of PON ID and XGS-PON ID* via SC/APC, detection up to: - GPON ≥ -29 dBm - XGS-PON ≥ -27 dBm * The network must provide the ID for this.
PLOAM Monitor	(Physical Layer Operation Administration and Maintenance) - Scan of PLOAM messages - Message trace with timestamp	- PLOAM sniffer directly on the fiber via PON socket (no replugging) - for GPON and XGS-PON	- Resync counter - Display of: - ONU ID - ONT serial number

External enhancements:

General:	Application, Settings + Results:		
Fiber Inspection Tool ext. Video Microscope	- USB Microscope for the ARGUS - optical Fiber Inspection - manual Focusing with separate key - optional: Autofocus - digital Zoom	- Pass /Fail evaluation according to IEC 61300-3-35 - min. Particle Size 0.5 μm - Defects: Core, Cladding, Adhesive, Contact	- Scratches: Core, Cladding, Adhesive, Contact - different Tips /Adapters included in scope of delivery - PC, UPC, APC - Single Mode /Multi Mode
VFL ext. Visual Fault Locator	- Mini Visual Laser Source - Output Power: 1 mW - Detecting Range: about 5 km	- Wavelength: 650 nm - Laser Level: Class 2 - Connector: Un/FC	- Modulation Frequency: CW / 2 Hz - Power Supply: 2 * AAA batteries
OLS ext. Optical Light Source	- Wavelength: 1310 nm, 1490 nm, 1550 nm ± 1625 nm (± 20 nm) - Stability: - Short term (15 min): 1310 nm $< \pm 0,05$ dB 1490 nm $< \pm 0,10$ dB 1550 nm $< \pm 0,05$ dB 1625 nm $< \pm 0,10$ dB - Long term (5 h): 1310 nm $< \pm 0,10$ dB 1490 nm $< \pm 0,20$ dB 1550 nm $< \pm 0,10$ dB 1625 nm $< \pm 0,20$ dB	- Connector: SC/APC with dust protection and protection against loss - Spectral width: 5 nm - Frequency: 270 Hz, 1 KHz, 2 KHz - Power: -5 dBm ± 0.5 dB	- Auto power off / backlight - Power supply: 2x Ni-MH AA (2500 mAh), AC/DC charger - Dimension (L x W x H): 160 x 76 x 45 mm - Net weight: 270 g - Accessories: AC/DC charger, 2 x AA battery, calibration report

Further specifications:

General:	Application, Settings + Results:		
WLAN	WLAN Access Point Mode WLAN Client Mode IEEE 802.11b/g/n (2.4 GHz) WEP to WPA2 Personal	- WLAN Access Point Scan - Number / List Access Points - Number 2.4 GHz / 5 GHz Networks - Network/Name (SSID) - Signal Strength (RSSI) [dBm] - Signal Quality [%] - MAC Address of AP - Used Channel/Frequency - Used Protocol - Negotiated Encryption - Authentication - Group Cipher, Pairwise Cipher	- AP Management (save etc.) - Test Result Upload via Web Server, WebDAV and FTP - Configuration Download via WebDAV and FTP - Remote Control via VNC, Web Server - Firmware Update via FTP Download

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Documentation and Analysis

- **Documentation** of all parameters recorded to test reports (in device and on PC) via automatic access tests
- Transfer of test results via **QR code** to a smartphone or via **WLAN** to cloud (FTP server)
- Free of charge firmware updates via **cloud** or via **USB** (www.argus.info)
- **WLAN** for transf. test results to systems of an electronic order processing system, access point mode, remote control via smartphone

Device Specifications

Technical Features:

- **Power** Li-Ion battery pack or plug-in mains adapter
- **Power management** User configurable
- **Keypad** 4 keys
- **TFT colour display** 800 x 480 pixels, backlit, incl. touchscreen
- **2 LEDS** Indicating the status
- **ARGUSpedia** Integrated help function
- **CE marking** Complies with CE directives
- **User safety** Fulfills EN 62368-1
- **RoHS conformance** Conformance according to WEEE directive

Interfaces:

- **USB client interface, USB host interface** Type USB-C (power), Type A
- **WLAN** IEEE802.11b/g/n /ac, ax detection
- **2.4GHz wireless technology**

Environmental conditions:

- **Temperature range for charging battery pack** 0 °C (+32 °F) up to +40 °C (+104 °F)
- **Max. Operating temperature (endurance tests)** 0 °C (+32 °F) up to +40 °C (+104 °F)
- **Max. Operating temperature (in battery mode)** -10 °C (+14 °F) up to +50 °C (+122 °F)
- **Operating temperature (with power/car adapter)** 0 °C (+32 °F) up to +40 °C (+104 °F)
- **Storing Temperature** -20 °C (-4 °F) up to +60 °C (+140 °F)
- **Relative humidity** Up to 95 %, non-condensing

Dimensions:

- **Size** H x W x D: 225 x 120 x 68mm (8.85 x 4.72 x 2.68 in)
- **Weight** approx. 815 g (1.80 lbs) ARGUS incl. battery pack

Standard Package:

Basic device incl. Selective xPON OPM, PON ID, Lithium-Ion battery pack, Mains adaptor, Shock absorbing rubber jacket, Carrying case, SC/APC measuring cable

Basic packages:

- **3xOPM** Order number: 120602
- **5xOPM incl. Through Mode + Up-/Downstream measurement** Order number: 120612

Additional Options:

- **Optical Light Source (OLS)** external Order number: 000280
- **Visual fault Locator(VFL)** external Order number: 000281
- **Fiber Inspection option** w/o Fiber Inspection Tool Order number: 020694
- **WLAN Management** for Cloud services Order number: 020658
- **2.4GHz wireless technology** Order number: 020661

* We would be glad to provide further details and information about additional accessories on request.



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