

# ARGUS® Enhancement: ARGUS® GPON ONT

**ARGUS®**  
testing the telecom network

## ARGUS® GPON ONT

With the ARGUS® GPON ONT, the ARGUS® can be expanded into a full-fledged GPON tester via the integrated SFP slot. The point-to-multipoint topology of a Gigabit PON (Gigabit Passive Optical Network) according to ITU-T G.984 can be tested just as easily, safely and quickly as with xDSL and G.fast. In combination with the ARGUS®, the ARGUS® GPON ONT is battery-powered and optimally protected through integration via SFP - making it ideally equipped for use in the field.

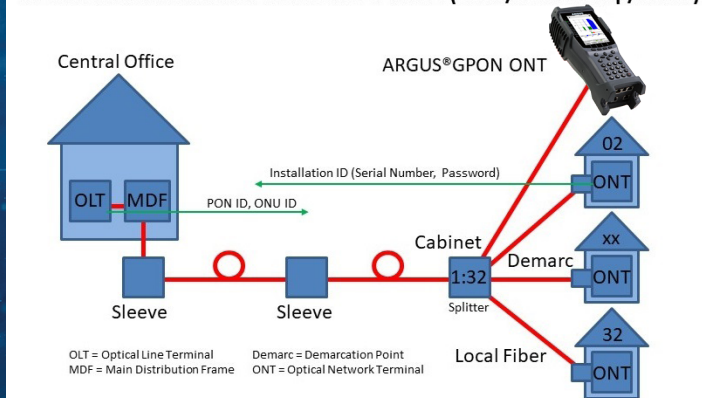
The configuration of the ARGUS® GPON ONT is quick and easy. Serial number and password can be entered directly into the ARGUS® and transferred to the ONT (Optical Network Terminal). This makes it extremely quick to deploy and can replace any customer ONT on site. The MAC address can be changed via the ARGUS® for test purposes, making configuration errors a thing of the past. The separate GPON trace detects authentication problems such as a wrong password or a failed connection attempt.

The ARGUS® GPON ONT not only allows complete protocol setup (PPP), but also provides important connection information such as the PON ID and ONU ID. Especially the connection to the wrong OLT port (PON ID) is a common source of error, which cannot be detected with an OPM or OTDR.

With an existing IP connection, the ARGUS® can be used to test all important services (including performance, speed and triple play tests), either via IPv4 or IPv6. Even management services can be used, the ARGUS® supplies itself with current firmware or a suitable configuration via the GPON interface and saves test results in the cloud.

The ARGUS® GPON ONT supports the Digital Diagnostic Mode (DDM) according to SFF-8472 and displays level information for each measurement. The Rx and Tx levels indicate the optical power budget or significant irregularities in the fiber optic cabling, such as fiber breaks, bad splices or poorly patched connections.

GPON network structure acc. to ITU-T G.984 (1310/1490 nm up/down)



## Specifications of the level measurement:

- Calibration: at -20 dBm
- Accuracy at -20 dBm  $\pm 0.5$  dB
- Measuring range: -8 dBm to -30 dBm
- Wavelength: 1490 nm



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### GPON Phys. Param.

Status	Operation	
	OLT-PSZ	Slot Port
	76G1	01 1
Vendor ID		
Equipm. ID		
ONU ID	48	
ONT	Rx	Tx
Level [dBm]	-15,5	2,1
Power [mW]	0,0	1,6
OLT	Tx	
Level [dBm]	3,1	
Class	B+	
Line		
Attenuation [dB]	18,6	

GPON TE Operation

Info SFP Trace

GPON Phys. Parameters

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### SFP Parameter

Vendor	
Name	intec GmbH
OUI (hex)	00 00 00
P/N	ARGUS GPON ONT
Rev.	1.0
S/N	INGE10431A19
Calibration Date	03.09.2020
Specifications	
Wavelength	1310 nm
Channel	GPON
Encoding	NRZ
Medium	optical
Diagnostic	
Temperature	28.8 °C
Voltage	3211.3 mV
Tx Bias	3.54 mA

GPON TE Operation

GPON SFP Parameters

Available for:



**intec**

GESELLSCHAFT FÜR  
INFORMATIONSTECHNIK mbH

Expand your ARGUS® now with the GPON ONT incl. GPON option + calibration:

Art. no.: 030077 (ARGUS® 300) / Art. no.: 026077 (ARGUS® 260) / Art. no.: 016677 (ARGUS® 166) / Art. no.: 016377 (ARGUS® 163)

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