2024

ARGUS®
testing the telecom network

THE FAMILY OF ARGUS

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ARGUS®
testing the telecom network

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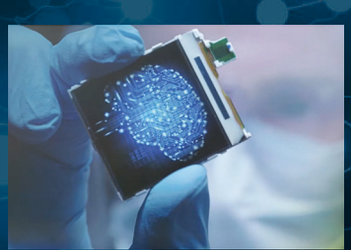
IN USE **THROUGHOUT EUROPE**

intec Gesellschaft für Informationstechnik mbh is successfully developing products for the international telecommunication markets for more than 35 years. Meanwhile specialized in high-quality 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

ARGUS® 300

GPON, XGS-PON, xPON ID, FTTH, PON installation, Sel. OPM, OFF, OTDR, FIT, OLS, VFL, G.fast, VDSL, ADSL, SHDSL, Bonding, 2.5GigE, 10GigE, SFP, WLAN, POTS, ISDN, Cu, TDR, RFL, Remote kit, Line Scope, Data, IP TV, Vo IP, Speed test, iperf, RFC 6349, RFC 2544, Y.1564

ARGUS 300 ...

All-in-one tester with touch display: combines intuitive operation, familiar ARGUS® menu structure and maximum system performance

Combines the functions of various fiber measurement devices, xDSL combi testers and 10 GigE measurement technology

Establ. speed tests on numerous interfaces such as GPON, XGS-PON, Ethernet, WLAN, G.fast, xDSL, 10 GigE and many more

Assists in the maintenance and testing of modern broadband interfaces in the copper and fiber range

Many different SFP modules for fiber (FTTx) and ETH (Active Ethernet), opt. with SFP+

Features a 1000 Base-T Ethernet interface and allows HTTP/FTP up/download tests, IP ping, traceroute; simulates at xDSL (opt.) bridge, PC and router mode

Offers numerous copper test options: e.g. with the line scope in the time/frequency range for the detection of interferers on all telecommunication lines

Free cloud functions, e. g. firmware update, configuration and test result upload

Supports easy configuration on the PC with the ARGUS® Configuration Tool

ARGUS 300 with optional ...

Selective OPM with automated detection of XGS-PON and GPON and readout of PON ID/XGS-PON ID

PON powermeter extension with through mode, measures 5 wavelengths simultaneously, with Alien-ONT detection

Guided PON installation test, ONT simulation; display of PON ID in plain text, precise, calibrated attenuation measurement and much more

ARGUS® GPON ONT: Replaces the customer ONT on-site, protocol setup (PPP) as well as speed and triple play tests, OLT port determination, separate GPON trace and PON level and attenuation measurement

OTDR: highly precise last mile troubleshooting, auto mode + graph. route analysis event by event

Fiber inspection tool for optical fiber inspection and pass/fail evaluation according to IEC 61300-3-35

Optical Fault Finder: simple optical fault location, determines the distance to various fault events

2.5/10 Gigabit Ethernet interface for even faster in-service speed testing via IPv4 and IPv6

WLAN AP and WLAN client mode with WLAN scan for finding WLAN networks

ARGUS® 2G4 Scope for finding WLAN interferers in real time

ARGUS® WLAN Analyzer: Automated and graphical evaluation of found networks, even during the connection, and much more

Measurement on ADSL, VDSL (35b), SHDSL (8-wire), G.fast (106/212) and all types of bonding accesses, incl. graphical processing of measured values, graphical long-term trace, OK/fail analysis, etc.

iperf client/server mode, determines TCP throughput in down-/upload, also ARGUS® vs. ARGUS®

ARGUS® Real Speed Test with evaluation of TCP throughput acc. to RFC 6349 with up to 10 Gbit/s

Traffic generator and loop function for 1/2.5/5/10 Gigabit Ethernet interfaces

RFC2544: Tests throughput, latency and frame loss with a maximum data rate of 10 Gbit/s

ARGUS® SAM: Service Activation and Performance Test according to Y.1564, determines CIR, EIR (incl. Traffic Policing) with a maximum data rate of 10 Gbit/s

Integr. cable multimeter for exact determination of U=, U~, CSym, C, Iso-R, RSym, R, I=, LCL, NEXT in autotest, opt. with RFL and automated remote kit control

TDR for determination of line length, detection and identification of short circuits, interruptions, mismatches, stubs, and more

ISDN BRI S/T, PRI and/or POTS interface for maximum compatibility

ARGUS® F300

GPON, XGS-PON, xPON ID, FTTH, PON installation, Sel. OPM, Through Mode, OTDR, FIT, OLS, VFL, 2.5GigE, 10GigE, SFP, WLAN, Data, IP TV, Vo IP, Speed test, iperf, RFC 6349

ARGUS F300 ...

Fiber tester with touch display: combines intuitive operation, familiar ARGUS® menu structure and maximum system performance

Establ. speed tests on numerous interfaces such as GPON, XGS-PON, Ethernet, WLAN, 10 GigE and many more

Assists in the maintenance and testing of modern broadband interfaces in the fiber range

Many different SFP modules for fiber (FTTx) and ETH (Active Ethernet), opt. with SFP+

Features a 10 GBase-T interface and allows HTTP/FTP up/download tests, IP ping, traceroute

Free cloud functions, e. g. firmware update, configuration and test result upload

Supports easy configuration on the PC with the ARGUS® Configuration Tool

ARGUS F300 with optional ...

Selective OPM with automated detection of XGS-PON and GPON and readout of PON ID/XGS-PON ID

PON powermeter extension with through mode, measures 5 wavelengths simultaneously, with Alien-ONT detection

Guided PON installation test, ONT simulation; display of PON ID in plain text, precise, calibrated attenuation measurement and much more

OTDR: highly precise last mile troubleshooting, auto mode + graph. route analysis event by event

Fiber inspection tool for optical fiber inspection and pass/fail evaluation according to IEC 61300-3-35

2.5 Gigabit Ethernet interface for even faster in-service speed testing via IPv4 and IPv6

WLAN AP and WLAN client mode with WLAN scan for finding WLAN networks

ARGUS® 2G4 Scope for finding WLAN interferers in real time

ARGUS® WLAN Analyzer: Automated and graphical evaluation of found networks, even during the connection, and much more

iperf client/server mode, determines TCP throughput in down-/upload, also ARGUS® vs. ARGUS®

ARGUS® Real Speed Test with evaluation of TCP throughput acc. to RFC 6349 with up to 10 Gbit/s

ARGUS® 260

G.fast, VDSL, ADSL, Bonding, 2.5GigE, SFP, WLAN, GPON, XGS-PON, xPON ID, FTTH, PON installation, Sel. OPM, OFF, FIT, OLS, VFL, POTS, ISDN, Cu, TDR, RFL, Remote kit, Line Scope, Data, IP TV, Vo IP, Speed test, iperf, RFC 6349

ARGUS 260 ...

Broadband tester with touch display: combines intuitive operation, familiar ARGUS® menu structure and maximum system performance

Combines the functions of various fiber measurement devices and xDSL combi testers

Many different SFP modules for fiber (FTTx) and ETH (Active Ethernet)

Establ. speed tests on numerous interfaces such as GPON, XGS-PON, Ethernet, WLAN, G.fast, xDSL and many more

Assists in the maintenance and testing of modern broadband interfaces in the copper and fiber range

Features a 1000 Base-T Ethernet interface and allows HTTP/FTP up/download tests, IP ping, traceroute; simulates at xDSL (opt.) bridge, PC and router mode

Offers numerous copper test options: e.g. with the line monitor in the time/frequency range for the detection of interferers on all telecommunication lines

Free cloud functions, e. g. firmware update, configuration and test result upload

Supports easy configuration on the PC with the ARGUS® Configuration Tool

Measurement on ADSL2/2+ (Annex B + J) + VDSL2 (up to profile 35b) incl. graph. Processing of the measured values, graph. Long-term trace, OK/Fail analysis and much more

ARGUS 260 with optional ...

Selective OPM with automated detection of XGS-PON and GPON and readout of PON ID/XGS-PON ID

PON powermeter extension with through mode, measures 5 wavelengths simultaneously, with Alien-ONT detection

Guided PON installation test, ONT simulation; display of PON ID in plain text, precise, calibrated attenuation measurement and much more

ARGUS GPON ONT: Replaces the customer ONT on-site, protocol setup (PPP) as well as speed and triple play tests, OLT port determination, separate GPON trace and PON level and attenuation measurement

Fiber inspection tool for optical fiber inspection and pass/fail evaluation according to IEC 61300-3-35

Optical Fault Finder: simple optical fault location, determines the distance to various fault events

2.5 Gigabit Ethernet interface for even faster in-service speed testing via IPv4 and IPv6

WLAN AP and WLAN client mode with WLAN scan for finding WLAN networks

ARGUS® 2G4 Scope for finding WLAN interferers in real time

ARGUS® WLAN Analyzer: Automated and graphical evaluation of found networks, even during the connection, and much more

Measurement on G.fast (106/212) and G.fast/VDSL (35b) bonding accesses

iperf client/server mode, determines TCP throughput in down-/upload, also ARGUS® vs. ARGUS®

ARGUS® Real Speed Test with evaluation of TCP throughput acc. to RFC 6349 with up to 10 Gbit/s

Integr. cable multimeter for exact determination of U=, U~, CSym, C, Iso-R, RSym, R, I=, LCL, NEXT in autotest, opt. with RFL and automated remote kit control

TDR for determination of line length, detection and identification of short circuits, interruptions, mismatches, stubs, and more

ISDN BRI S/T and/or POTS interface for maximum compatibility

ARGUS® F240

ARGUS F240 ...

- Fiber tester with touch display: combines intuitive operation, familiar ARGUS® menu structure and maximum system performance
- Selective xPON-OPM with automated detection of XGS-PON and GPON and readout of PON ID/XGS-PON ID
- Many different SFP modules for fiber (FTTx) and ETH (Active Ethernet)
- Establ. speed tests on numerous interfaces such as GPON, XGS-PON, Ethernet, WLAN, 10 GigE and many more
- Assists in the maintenance and testing of modern broadband interfaces in the fiber range
- Features a 10 GBase-T interface and allows HTTP/FTP up/ download tests, IP ping, traceroute
- Free cloud functions, e. g. firmware update, configuration and test result upload
- Supports easy configuration on the PC with the ARGUS® Configuration Tool

ARGUS F240 with optional ...

- PON powermeter extension with through mode, measures 5 wavelengths simultaneously, with Alien-ONT detection
- Guided PON installation test, ONT simulation; display of PON ID in plain text, precise, calibrated attenuation measurement and much more
- Fiber inspection tool for optical fiber inspection and pass/fail evaluation according to IEC 61300-3-35
- 2.5 Gigabit Ethernet interface for even faster in-service speed testing via IPv4 and IPv6
- WLAN AP and WLAN client mode with WLAN scan for finding WLAN networks
- ARGUS® 2G4 Scope for finding WLAN interferers in real time
- ARGUS® WLAN Analyzer: Automated and graphical evaluation of found networks, even during the connection, and much more
- iperf client/server mode, determines TCP throughput in down-/upload, also ARGUS® vs. ARGUS®
- ARGUS® Real Speed Test with evaluation of TCP throughput acc. to RFC 6349 with up to 10 Gbit/s

ARGUS® 166 ARGUS® 163

ARGUS 166/163 ...

- Tester with larger memory and optimized system performance
- VDSL2 Profile 35b (ITU-T G.993.2, Annex Q / Super Vectoring)
- Highspeed downloads on xDSL and Ethernet (> 900 Mbit/s)
- Ethernet network scan with graphical display lists all IP and MAC addresses in the network
- Supports a lot of different SFP transceivers for fiber tests (FTTx)
- Active Line Noise graph and graphical xDSL long-time trace to detect infrequent DSL errors
- HTTP/FTP up-/download tests, IP Ping, trace route; bridge, PC and router modes
- Line monitoring (Line Scope) via optional Probe with sym. / asymm. operation mode
- Free cloud functions, e. g. firmware update, configuration and test result upload
- Supporting PC software (ARGUS® Update Tool, WINanalyse, WINplus) for updates, configuration and test results

ARGUS 166/163 with optional ...

- VDSL2 profile 35b Bonding support
- G.fast extension (G.9700/9701) up to 212 MHz
- ADSL2/2+ modem simulation (Annex A + L + M and / or B + J)
- SHDSL connection tester, 2, 4, 6 and 8 wire, SDHSL and SHDSL.bis (ATM, EFM, TDM) [1]
- ISDN BRI S/T/U, PRI/E1 interface (TE/NT/monitor) and POTS
- LAN cabling tests (multi cable test) with up to 100 measurements for detecting cabling faults[2]
- Allocate up to 100 active ARGUS® LAN Probes with programmable ID[2]
- PoE load tests ("Power over Ethernet"), class 0 to 4 automatic[2]
- Supports throughput according to RFC 2544 incl. GigE loop and traffic generator (1 Gbit/s)[1]
- GPON/XGS-PON modem simulation (ONT) with throughput tests*
- TDR function for measuring line lengths (up to 6 km) and identifying sources of interference
- Extension of copper test functions with the ARGUS® Copper Box
- Parallel tests of all Triple Play services like Data, VoIP, IPTV via xDSL and GigE
- LTE extension* consisting of LTE scanner and download tests
- WLAN-AP and WLAN client mode with WLAN scan for finding WLAN networks
- ARGUS® 2G4 Scope for finding WLAN interferers in real time
- ARGUS® WLAN Analyzer: Automated and graphical evaluation of found networks, even during the connection, and much more
- Fiber enhancements for fiber testing (Optical Power Meter, Optical Fault Finder, PON installation test), see ARGUS® 300

[1] ARGUS 166 only [2] ARGUS 163 only

ARGUS® 156 ARGUS® 153

ARGUS 156/153 ...

- Tester with larger memory and optimized system performance
- VDSL2 Profile 35b (ITU-T G.993.2, Annex Q / Super Vectoring) [4]
- Highspeed downloads on xDSL and Ethernet (> 900 Mbit/s)
- Measurement of xDSL up-/downstream parameters, as well as bits/tone (graphic) and more [4]
- HTTP/FTP up/download tests[3]
- IP ping and traceroute tests as well as bridge, PC and router mode included
- Supports the protocols IPv4 and IPv6 as well as the dual stack mode
- Active Line Noise graph and graphical xDSL long-time trace to detect infrequent DSL errors
- Line monitoring (Line Scope) via optional Probe with sym. / asymm. operation mode
- Free cloud functions, e. g. firmware update, configuration and test result upload
- Supporting PC software (ARGUS® Update Tool, WINanalyse, WINplus) for updates, configuration and test results

ARGUS 156/153 with optional ...

- VDSL2 profile 35b Bonding support
- G.fast extension (G.9700/9701) up to 212 MHz
- Ethernet network scan with graphical display lists all IP and MAC addresses in the network
- ADSL2/2+ modem simulation (Annex A + L + M and / or B + J)
- SHDSL connection tester, 2, 4, 6 and 8 wire, SDHSL and SHDSL.bis (ATM, EFM, TDM) *[3]
- HTTP download/FTP up and download tests (with several 100 Mbit/s) via FTP server
- Parallel tests of all Triple Play services like Data, VoIP, IPTV via xDSL and GigE
- TDR function for measuring line lengths (up to 6 km) and identifying sources of interference
- Expandability of line monitoring, TDR, symmetry measurement (up to 30 MHz) and more*[3]
- Extension of copper test functions with the ARGUS® Copper Box
- ISDN BRI S/T/U, PRI/E1 interface (TE/NT/monitor) and POTS[3]
- Transferring of test results via WLAN or QR code to systems of an electronic order processing
- LTE extension* consisting of LTE scanner and download tests
- WLAN-AP and WLAN client mode with WLAN scan for finding WLAN networks
- ARGUS® 2G4 Scope for finding WLAN interferers in real time
- ARGUS® WLAN Analyzer: Automated and graphical evaluation of found networks, even during the connection, and much more

[3] ARGUS 156 only [4] ARGUS 153 only

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

ARGUS OVERVIEW 2024

		300	F300	260	F240	166 / 163	156 / 153
Interfaces	ADSL2/2+	✓		●		✓	✓
	VDSL2 Profile 35b	✓		●		✓	✓
	VDSL2 Profile 35b Bonding	✓		✓		✓	✓
	G.fast (up to 212 MHz)	✓		✓		✓	✓
	G.fast (up to 212 MHz Bond.)	✓		✓			
	SHDSL 2/4/8 wire (STU-R/C)	✓				✓ [1]	✓ [3]
	xDSL	✓		●		✓	✓
ETH	1 GigE	●	●	●		●	●
	2.5 GigE	✓	●	✓			
	10 GigE Link	✓	✓	✓	✓		
Fiber	GPON	✓	●	✓	●	✓	
	XGS-PON	✓	●	✓	●	✓	
	xPON ID	✓	✓	✓	✓	✓	
	PON Installation Test	✓	✓	✓	✓	✓	
	Sel. OPM / Optical Power Meter	✓ / ✓	● / -	✓ / ✓	● / -	- / ✓	
	Sel. OPM with Through Mode	✓	✓	✓	✓		
	Optical Fault Finder	✓		✓		✓	
	OTDR	✓	●				
	Fiber Inspection Tool	✓	✓	✓	✓		
	Optical Light Source	✓	✓	✓	✓	✓	
	VFL	✓	✓	✓	✓	✓	
Wireless	WLAN Test	✓	✓	✓	✓	✓	✓
	WLAN Spectrum Analysis/2G4 Scope	✓	✓	✓	✓	✓	✓
	WLAN Management	●	●	●	●	✓	✓
	ARGUS® WLAN Analyzer	✓	✓	✓	✓	✓	✓
ISDN/POTS	BRI U					✓	✓ [3]
	BRI S/T	✓		✓		✓	✓ [3]
	PRI/E1	✓				✓	✓ [3]
	POTS	✓		✓		✓	✓ [3]
Copper	int. Cable Multimeter (DMM)	✓		✓			
	Copper Box					✓	✓
	Line Scope	●		●		●	●
	TDR	✓		✓		✓	✓
	RFL	✓		✓			
	Remote Kit Control	✓		✓		✓	✓
	ARGUS® RF Current Clamp	✓		✓		✓	✓
Tests	IP Tests (Ping/Traceroute)	●	●	●	●	●	●
	Down-/Upload (HTTP/FTP)	●	●	●	●	● [1] / ✓ [2]	✓
	ARGUS® Real Speed Formal (RFC6349)	✓	✓	✓	✓	✓	✓
	ARGUS® Real Speed Direct (iperf)	✓	●	✓	✓	✓	✓
	Speedtests up to 2.5 Gbit/s		●		✓		
	Speedtests up to 10 Gbit/s	✓	✓	✓	✓		
	Network Scan	✓	✓	✓	✓	●	✓
	Web Browser	●	●	●	●		
	VoIP + MOS	✓	✓	✓	✓	✓	✓
	IPTV	✓	✓	✓	✓	✓	✓
	Parallel Tests / Autotests	●		●		✓	✓
	LAN Cabling/PoE					✓ [2]	
	Loop/Traffic-Generator	✓				✓ [1]	
	RFC2544	✓				✓ [1]	
	ARGUS® SAM (Y.1564)	✓					
Admin	FW Update, Configuration Import & Test Result Upload via Cloud/FTP	●	●	●	●	●	●
	Remote Access (VNC)	●	●	●	●	✓	✓
	PC Software	●	●	●	●	● [1] / ✓ [2]	✓
	ARGUS® Mobile App	●	●	●	●		

● inclusive ✓ optional ✓ minimum one DSL interface is part of the standard package

[1] ARGUS 166 only [2] ARGUS 163 only [3] ARGUS 156 only