



**ARGUS®**  
testing the telecom network

## ARGUS 165 ...

- xDSL+GigE tester – expandable to GigE, VDSL2, ADSL, SHDSL combi tester
- Copper-based RJ45 GigaBit Ethernet interface (1000BT) integrated
- Supports SFP transceivers 100Base-FX/LX and 1000Base-SX/ZX/LX on demand
- The GigE interfaces are enabling high-speed downloads and other IP tests, wiring tests on Ethernet, a PoE check and even performance testing using loop and traffic generator up to 1 Gbit/s
- Measurement of xDSL up/downstream parameters, as well as bits/tone (graphic) and more
- HTTP/FTP up/download tests, IP ping, trace route; bridge, PC and router modes
- RC measuring, voltage measurement and loop length calculation on local loop
- Spectrum analysis and line monitoring (Line Scope) on an active loop, passively with the aid of connecting an optional high-impedance probe with symmetrical and asymmetrical operation mode
- Large colour display (LCD), super-fast ready time
- USB data transfer to PC, plus integrated high-performance Li-Ion battery pack
- Comprehensive accessories and extreme handy, with a weight of 880 g

## ARGUS 165 with optional ...

- VDSL2 modem simulation supports all profiles (8, 12, 17 and 30 MHz)
- ADSL2/2+ modem simulation (Annex A + L + M and/or B + J)
- SHDSL connection tester with 2, 4, 6 and 8 wire SHDSL (EFM, G.SHDSL.bis)
- Supports GigaBit Ethernet throughput tests according to RFC 2544 up to 1 Gbit/s
- Dual-GigE support for SFPs and copper-based GigE (2 x SFP or 1 x SFP und 1000BT)
- VoIP tests via xDSL/Ethernet, speech quality evaluation via MOS / R factor
- Test of video services (IPTV/VoD with set-top box function, MDI determination and more)
- xDSL and IPTV online trace for long-term analysis with WINAnalyse software

## ARGUS 145 plus ...

- xDSL combi tester – VDSL2, ADSL, SHDSL and Ethernet available in a single device
- Ethernet interface (100BT) integrated, GigaBit\* Ethernet (1000BT) optional
- Large colour display (LCD), super-fast ready time
- Measurement of xDSL up/downstream parameters, as well as bits/tone (graphic) and more
- HTTP/FTP up/download tests, IP ping, trace route; bridge, PC and router modes
- RC measuring, voltage measurement and loop length calculation on local loop
- Spectrum analysis and line monitoring (Line Scope) on an active loop, passively with the aid of connecting an optional high-impedance probe with symmetrical and asymmetrical operation mode
- USB data transfer to PC plus integrated high-performance Li-Ion battery pack
- Comprehensive accessories and extreme handy, with a weight of 810 g

## ARGUS 145 plus with optional ...

- VDSL2 modem simulation supports all profiles (8, 12, 17 and 30 MHz)
- ADSL2/2+ modem simulation (Annex A + L + M and/or B + J)
- SHDSL connection tester, 2, 4, 6 and 8 wire SHDSL (EFM, G.SHDSL.bis – Enhanced SHDSL)
- The GigE interface is enabling high-speed downloads and other IP tests, wiring tests on Ethernet, a PoE check and even performance testing according to RFC 2544 up to 1 Gbit/s
- TDR function for measuring line lengths (up to 6 km) and identifying sources of interference
- VoIP tests via xDSL/Ethernet, speech quality evaluation via MOS / R factor
- PESQ speech quality evaluation (independent of interface and protocol)
- Test of video services (IPTV/VoD with set-top box function, MDI determination and more)
- ISDN BRI S/T interface for TE, NT and monitor operation, ISDN U interface for TE operation
- ISDN PRI interface for TE, NT, E1 and monitor operation, incl. MegaBERT (2 Mbit/s))
- Integrated POTS interface with CLIP/DTMF display and monitor
- xDSL and IPTV online trace for long-term analysis with WINAnalyse software

## ARGUS® 165



## ARGUS® 145 PLUS



# ARGUS<sup>®</sup> 42<sup>PLUS</sup> ARGUS<sup>®</sup> 142



## ARGUS 42 plus and ARGUS 142 ...

- ADSL access tester (Annex A, B or A + B), can be extended to a fully integrated tester
- Measurement and OK / NOK evaluation of the ADSL data rates and further parameters
- Graphical display of the access data - Bits/tone, SNR/tone and Quiet Line Noise/tone
- Ethernet interface (10/100 Base-T) for Ethernet tests
- RC measuring, voltage measurement and loop length calculation on local loop

## ARGUS 142 additionally ...

- expandable to VDSL2+ADSL combi tester
- Equipped with IP ping- and trace route tests, as well as bridge, PC and router mode
- Line monitoring (Line Scope) on an active loop, passively with the aid of connecting an optional high-impedance probe with symmetrical and asymmetrical operation mode

## ARGUS 42 plus and ARGUS 142 with optional ...

- VDSL2 modem simulation with profiles 8, 12, 17 and 30 MHz (only ARGUS 142)
- VoIP tests via DSL/Ethernet, speech quality evaluation via MOS / R factor
- Test of video services (IPTV) with MDI determination and more
- Bridge and router mode, PPP login and ATM/IP tests (only ARGUS 42 plus)
- HTTP download / FTP up- and download tests, incl. FTP server (only ARGUS 142)
- ISDN tester (BRI TE mode) supports BERT, service tests etc.
- U interface (4B3T or 2B1Q) in TE mode and POTS interface with CLIP and POTS monitor
- TRG option for Tip, Ring and Ground measurements + HF detection (only ARGUS 42 plus)
- TDR function for identifying sources of interference (only ARGUS 142)
- Spectrum analysis (DMT analysis), adaptable in low and high-impedance mode (only ARGUS 142)
- Line qualification – Dual Ended Line Test (DELT) (only ARGUS 142)
- DSL online trace for long-term analysis with WINanalyse software

## ARGUS 141 ...

- VDSL2 tester – VDSL2 and ADSL available in a single device
- Ethernet interface (10/100 Base-T) for Ethernet tests
- Equipped with IP ping- and trace route tests, as well as bridge, PC and router mode
- Large colour display (LCD), super-fast ready time
- VDSL2 modem simulation supports all profiles (8, 12, 17 and 30 MHz)
- Measurement of xDSL up/downstream parameters, as well as bits/tone (graphic) and more
- USB data transfer to PC plus integrated high-performance Li-Ion battery pack

## ARGUS 141 with optional ...

- ADSL2/2+ modem simulation (Annex A and/or B)
- Protocols: PPPoE, PPPoA, IP over ATM, Ethernet over ATM, IP, PPTP
- ATM tests, HTTP download / FTP up- and download tests, incl. FTP server
- VoIP tests via xDSL/Ethernet, speech quality evaluation via MOS / R factor
- Spectrum analysis (DMT analysis), adaptable in low and high-impedance mode
- Configuration, documentation and storage of tests reports on a PC using WINplus

## ARGUS 42 basic ...

- ADSL2/2+ connection tester to replace modem, splitter and end device
- Measurement of ADSL data rates and line parameters
- Display of results and important error counters
- Graphical display of the access data - Bits/tone, SNR/tone and Quiet Line Noise/tone
- Easy configuration and display of results via menu
- Intuitive prompts, super-fast ready time
- Bridge mode and IP tests, including PPP login and IP ping test

# ARGUS<sup>®</sup> 141 ARGUS<sup>®</sup> 42<sup>BASIC</sup>



## ARGUS 125 ...

- ISDN handheld tester supporting all of the important interfaces
- PRI and BRI interfaces in TE/NT/Leased Line mode and monitoring of the D channel
- ISDN U interface (4B3T or 2B1Q) in TE mode
- Integrated POTS interface with CLIP/DTMF display and monitor
- Large internal memory for decoding D channel data inside the tester
- Voltage and RC measurements complemented by a loop length calculation
- Automatic test sequence (auto test) - results are saved
- USB port for data transfer to PC; batteries can be charged inside the tester
- Fully accessorized (test leads, carrying case, manual, WINplus, etc.)
- Configuration, documentation and storage of tests reports on a PC using WINplus
- Option: E1 bit error test on all B channels (framed / unframed)

## ARGUS 125 expansion to the Next Generation Voice Tester (NGVT)

- ADSL2/2+ modem simulation (Annex A, B or A + B), incl. PPP login etc.
- Measurement of ADSL up-/downstream parameters with OK / NOK evaluation
- Graphical display of the access data - Bits/tone, SNR/tone and Quiet Line Noise/tone
- HTTP/FTP up/download tests, IP ping, trace route; bridge, PC and router modes
- Ethernet interface (10/100 Base-T) for Ethernet tests
- VoIP tests via ADSL/Ethernet, quality evaluation of speech via MOS/R factor
- PESQ quality evaluation of speech (independent of interface and protocol)
- ADSL online trace for performing a long-term analysis using WINanalyse

# ARGUS<sup>®</sup> 125





#### ARGUS 3u basic ...

- ISDN BRI access tester with integrated handset
- ARGUS 3u basic with support for S/T and U interfaces (2B1Q or 4B3T) in TE mode
- Intuitive menu navigation using soft and cursor keys
- Automatic test sequence (auto test) - results are saved
- Data transfer to a PC using optional PC software
- Voltage and signal level measurement
- Leased line tests (including the D channel)
- Powered on S/T interface, rechargeable batteries or mains adaptor, integrated charger

#### ARGUS 3u plus additionally with ...

- POTS interface with an integrated mini-splitter, prevents interferences from ADSL
- POTS monitor with CLIP and DTMF display
- HF test, reporting the presence of frequencies on the line (e. g. ADSL)
- RC measurements complemented by a loop length calculation
- Option: BRI S/T interface NT mode with D channel monitoring
- Option: Cabling test for BRI S/T interfaces

#### ARGUS 3u NT additionally with ...

- BRI S/T interface NT mode with D channel monitoring
- POTS interface with an integrated mini-splitter, prevents interferences from ADSL

ARGUS® 3u BASIC / PLUS / NT



WWW.ARGUS.INFO

ARGUS® UPDATE tool

ARGUS® WIN plus

ARGUS® WIN analyse

#### Update-Tool

- Software for updating the firmware of the ARGUS testers
- Step-by-step instructions favoring a simple operation
- Supporting any PC interface of the ARGUS (if applicable optional adaptor required)

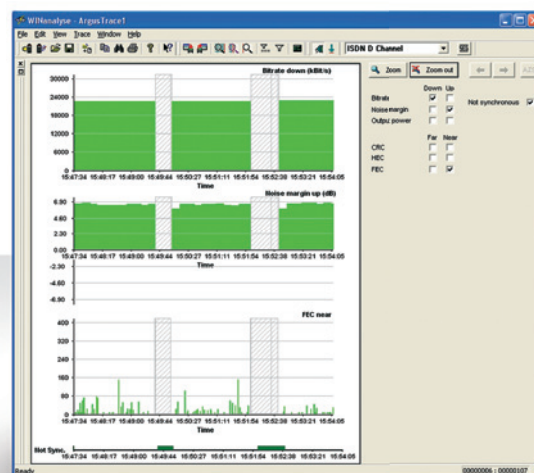
Free download of all updates from [www.argus.info/en/service/](http://www.argus.info/en/service/)

#### WINplus

- Configure all the different ARGUS testers via PC, conveniently and comprehensively
- Save and manage your ARGUS configurations and test results for comparing, archiving and exchanging them with others
- Graphical and tabular display of the test results on PC
- Print access test results for xDSL, ISDN, VoIP, IPTV etc.

#### WINanalyse additionally includes ...

- xDSL online trace for long-term analysis
- IPTV online trace for long-term analysis
- Comprehensive functions to perform an ISDN protocol analysis
- Real time decoding of the D channel with comprehensive filter and search functions
- Graphical display of bit error rate tests (MegaBERT) incl. comprehensive analysis functions

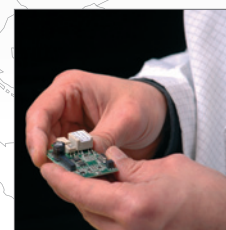












## IN USE THROUGHOUT EUROPE

intec Gesellschaft für Informationstechnik mbH is developing products for the international telecommunications market for more than 20 years and is one of the leading suppliers for xDSL, ISDN and IP measurement technology in Europe today.

With the aid of ARGUS measurement equipment, users can conveniently and safely commission and troubleshoot xDSL and ISDN accesses as well as inspect services like VoIP and IPTV based hereon. ARGUS testers are designed to meet the day-to-day needs of the field staff; consequently intec engineers focus on ensuring high-quality measurements combined with simply and convenient operation. The portfolio of ARGUS testers, software and analyzers benefits from a continuous development and is kept up-to-date with support for the current standards for all the common access types and protocols as well as for the features of the Next Generation Networks (NGN) and Triple Play services.

Throughout the world, numerous telecommunication companies have come to appreciate and rely on the advantages offered by intec equipment; to name just a few Deutsche Telekom, Saudi Telekom, Telefonica, KPN, British Telecom and Telekom Austria.



	165	145 plus	142	42 plus	141	42 basic	125	3u NT	3u plus	3u basic
VDSL2	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>		✓					
ADSL <sup>1</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>	✓	✓	✓ <sup>3</sup>			
SHDSL	✓	✓								
10/100 Base-T (Cu)	✓	✓	✓	✓	✓		✓			
1000 Base-T (Cu)	✓	✓ <sup>2</sup>								
2 x SFP	✓									
BRI U	✓	✓	✓	✓			✓	✓	✓	✓
BRI S/T TE/LL	✓	✓	✓	✓			✓	✓	✓	✓
BRI S/T NT/mon.	✓	✓					✓	✓		
PRI/E1		✓					✓			
POTS	✓	✓	✓	✓			✓	✓	✓	✓
RC	✓	✓	✓	✓			✓	✓	✓	
DMT Analysis	✓	✓	✓		✓					
Line Scope	✓	✓	✓							
Probe	✓	✓	✓							
TDR	✓	✓	✓							
LQ/DELT			✓							
Bridge	✓	✓	✓	✓	✓	✓	✓			
Router	✓	✓	✓	✓	✓		✓			
IP Tests	✓	✓	✓	✓ <sup>2</sup>	✓	✓ <sup>2</sup>	✓			
Down-/upload	✓	✓	✓	✓ <sup>2</sup>	✓		✓			
IPTV/MDI	✓	✓	✓	✓ <sup>2</sup>						
VoIP & MOS	✓	✓	✓	✓	✓		✓			
PESQ		✓					✓			
	165	145 plus	142	42 plus	141	42 basic	125	3u NT	3u plus	3u basic
										



inclusive



optional



minimum one DSL interface is part of the standard package

<sup>1</sup> Annex may vary depending on country.

<sup>2</sup> On request

<sup>3</sup> Online trace in combination with WINAnalyse

## ARGUS® MADE IN GERMANY

**ARGUS®**  
testing the telecom network

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