

# details

## ARGUS® 126

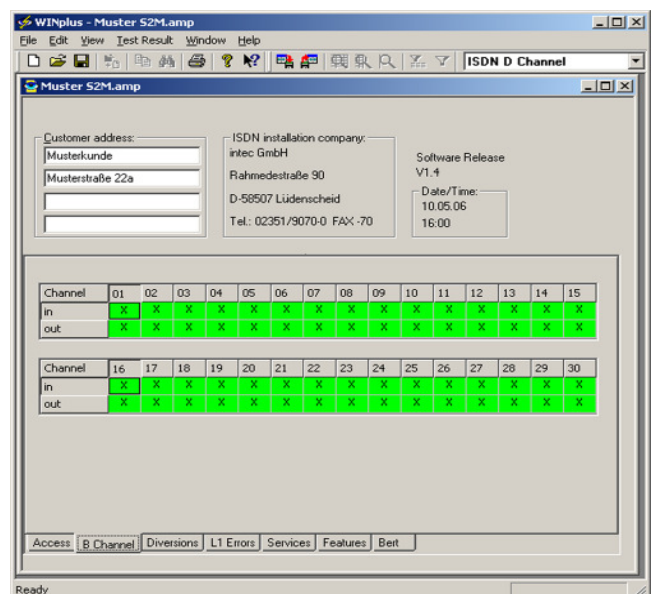
Premium tester with all important interfaces  
(Version: 01 / 2007)

- PRI and BRI interface in TE/NT simulation mode
- D-channel passive monitoring for PRI and BRI
- U\* interface and POTS interface with CLIP in terminal mode
- POTS monitor with CLIP and DTMF decode
- X.21 interface (X.21 BERT test option)\*
- 16 MByte internal D-channel data memory
- Leased line test (PRI / BRI with and without D-channel)
- Bit error test with n x 64 kBit/s (BERT), with bitpattern 2E23-1
- E1-bit error test with n x 64 kBit/s (framed / unframed) as option (MegaBERT), with bitpattern 2E23-1
- 128 kBERT on U\* and BRI leased line
- Support of private PABX protocols
- Intuitive menu navigation with cursor keys and softkeys
- Automatic test sequence (Autotest) and storage of the test reports
- Data transfer to a PC by USB or RS-232
- Powered by rechargeable batteries or power supply
- Internal rechargeable battery charging function
- Remote-Control via PC\*
- WINanalyse PC software (ASN.1 D-channel decoding for Windows 95,98, NT, 2000, ME, XP)
- Flash-ROM technology for free software updates via PC (WINplus) from [www.argus.info](http://www.argus.info)



### ARGUS® 126 - The PRI Functions:

- E1-PRI interface in accordance with ETS 300 011, ITU-T G.703-HDB3 Code, automatic CRC detection
- Operation on U interface (LT/NT mode)
- Operation modes:
  - TE mode (terminal simulation)
  - NT mode (network simulation)
  - D-channel monitor mode (high impedance), passive overplugging to PRI-access with online recording on PC or the internal memory, internal decode
  - D-channel trace in TE/NT mode to PC or memory, internal decode
- Automatic detection of protocol and access-configuration (CRC on/off): DSS1
- additional protocols: Cornet-T / N, QSIG, VN4
- display of Layer 1-2-3 status and B-channel configuration
- Automatic X.31 test (in D- and B-channel)
  - “Packet data in D-channel“ available?
  - Automatic detection of the TEIs activated in the frame handler
  - simulation of X.31(D)-terminal to X.25 network
- Layer 1 alarms (CRC-4, AIS, FAS, E-Bit, A-Bit, frame error, code error, bitslips, Sa<sub>x</sub> display)
- Layer 1-Master/Slave operation, LT/NT by Sa<sub>x</sub> commands
- Automated test scenarios for access verification and saving the data in device to create an access report
- Automatic Service Test: determines which ISDN services are available in send and receive direction
- Automatic test of the supplementary services
  - for DSS1: automatic tests of CLIP, CLIR, COLP, COLR, CFU, CFB, CFNR, AOC-D/E, CCBS, CCNR, ECT, 3Pty, DDI, display of subaddress SUB, usertext UUS during incoming calls, support of keypad protocol



(Display of the PRI B-channel configuration with WINplus)

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- Telephone functions with the Call hotkey
  - call number memory for 10 numbers or keypad protocol commands, X.31 test number, own number, redialing
  - displays for incoming calls: calling and called number, B-channel, service, type of number and numbering plan, display info elements, SUB address and UUS-1 data
  - displays during call: AOC-D, display of info elements,
  - at end of call: AOC-E, clearing cause by number/text incl. location
- Selectable B-channel, en-bloc or overlap signalling
- Up to 30 concurrent PRI connections
- bit error test (BERT) with evaluation in accordance to G.821
  - extended self-call or end-to-end BERT
  - displays the bit error count and remaining measuring time
  - G.821 analysis: ES, EFS, SES, US, DM and OK evaluation
  - selectable service
  - manual injection of bit errors
  - adjustable OK/Not-OK bit error rate threshold and evaluation
  - QRS test pattern acc. O.150: 2E11-1, 2E15-1, user defined
  - measuring time: 1 min.- infinite
  - loop-box for all or selected B-channels
  - audible alarms for bit errors and LOS, LOS counter
  - E1 biterrortest with  $n \times 64$  kBit/s (MegaBERT), as option
  - multiple links of loopbox and self-call simultaneously
- Configuration of type of number and numbering plan
- Tests of ISDN leased lines:
  - Telephone function and BERT
  - selectable B-channel and two concurrent BERT
  - loopbox for all or selected B-channels
- TE/NT-simulation with different ISDN-services
- displays the most important clearing causes by number/text incl. location

## ARGUS®126 - The BRI Functions:

- BRI interface in accordance with ITU-T I.430
- operation modes:
  - TE mode (terminal simulation), like PRI
  - NT mode (network simulation), like PRI
  - monitor mode (passively monitor the BRI with online recording of the data on a PC or saving in the 16 MByte internal D-channel data memory)
- Automatic detection of access configuration:
  - Point-to-point (P-P) or point-to-multipoint (P-MP)
  - DSS1
- additional protocols: Cornet-T / N, QSIG, VN4
- Display of layers 1-2-3 and the B-channel status
- Display of layer 1 info (Info 0-Info 4)
- MSN-interrogation (acc. with VST)
- Automatic test of ISDN services

- Automatic test of the supplementary services
  - for DSS1: automatic tests of CLIP, CLIR, COLP, COLR, HOLD, TP, CFU, CFB, CFNR, AOC-D/E, CCBS, CCNR, ECT, 3Pty, DDI, SUB, UUS during incoming calls, support of keypad protocol
- Bus status test with interrogation, display and clearing of the active call diversions CFU, CFB, CFNR for all services
- Setup of call diversions
- Using of two connections simultaneously (loopbox and extended self-call)
- display of Layer 1-2-3 status and B-channel configuration
- Automatic X.31 test (in D- and B-channel)
  - “ Packet data in D-channel“ available?
  - Automatic detection of the TEIs activated in the frame handler
  - simulation of X.31(D)-terminal to X.25 network
- measurement of delay, round trip delay and interchannel delay
- Layer 1 tests: measurement and evaluation of the phantom feed (OK, NORMAL or Restricted Power) and the L1-Rx/Tx-signal level of NTBA and PABX
- D-channel BERT with various bitpattern (compatible with other testers)

## ARGUS®126 - The U interface Functions:

- U interface acc. ETR 80 / ANSI T1.601
- line coding: 4B3T or 2B1Q available, RJ 45 with 150 Ohms
- test in TE mode at U interface same as at BRI/PRI
- measurement of U interface voltage and OK evaluation
- progr. D.C. load (up to 1200 mW incl. U/I measurement) for LT line card test

## ARGUS®126 - The POTS Functions:

- POTS (a/b) interface with DTMF and pulse dial mode
- flash function (40-1000 ms)
- loop current limiting
- POTS voltage measurement incl. polarity (for hook-on / hook-off)
- CLIP and other caller ID services acc. ETS 300 659/778
- supports display FSK and DTMF caller ID
- adjustable DTMF signal level, signal and interval length
- high-Z monitor with non-intrusive listen-to on POTS (via U-interface)
  - measurement of voltage incl. polarity in TE-mode up to 150 V
  - im monitor-mode up to 250 V
  - online display of CLIP, date, time,... caller ID services
  - online display of DTMF dialing tones incl. A, B, C, D, \*, #

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## ARGUS® 126 - The X.21 Functions\*:

- Bit error test on X.21 interface  
(without extra RJ45 - X.21 adapter)



(illustration of ARGUS 126 with X.21-module)

- Standard package: Tester incl. rechargeable batteries, plug-in power supply, RJ-45-BRI and PRI connection cable, U / POTS interface connection cable, manual, shock-absorbing PVC jacket, carrying case

## Optional functions:

- U interface (line coding 2B1Q or 4B3T)
- X.21-interface (incl. X.21-testfunctions, BERT)

## Optional accessories:

- Remote-Kit (remote control / configuration by PC)
- Headset
- Calibration certificate
- Special PRI cables  
(BNC-, Banana-plug-, LSA-, ISEP-, HICOM-cable/adapter)

## Technical Features:

- Power Supply: standard rechargeable batteries (AA)  
(charging in product) or power supply
- lifetime: up to 21 h (POTS, BRI)
- Keypad: 18 keys, 4 cursor keys, 3 softkeys
- LC-Display: 8 lines graphic display, backlighted
- 6 LEDs to indicate status  
(ISDN Layers 1-2-3, PC Trace, power supply)
- Interfaces:
  - Data transfer to a PC by USB and RS-232
  - 2 x RJ45, Ethernet, X.21 interface\*
- Dimensions:
  - with X.21-module: H 280 mm, W 97 mm, D 55 mm
  - without X.21-module: H 235 mm, W 97 mm, D 55 mm
- Weight:
  - with X.21-module: 660 g
  - without X.21-module: 570 g
- Environmental conditions:
  - Operating temperature: 0° - + 50 ° C
  - Storing temperature (under shade): - 15° - + 70°
  - Relative Humidity: up to 95 % , non-condensing
- CE marking: complies with CE directives
- User safety: EN 61010-1, EN 60950

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