details

ARGUS® 3u basic
ARGUS® 3u PLUS
ARGUS® 3u NT

ISDN access tester series
(Version: 03 / 2007)

- ISDN BRI interface in TE mode (terminal simulation)
- ISDN BRI interface in NT mode (net simulation)*
- ISDN BRI monitor mode (complete D-channel monitoring)*
- Tests BRI and U leased line
- Fully automated access tests and test reports for documantation
- ISDN U interface in TE mode (terminal simulation)
- U line coding: 4B3T or 2B1Q
- Tests POTS interface (a/b interface)*
- POTS monitor with CLIP-, rates- and DTMF-display*
- Intergrated mini-splitter (mikro filter seperates ADSL-frequencies)
- Cable testing at BRI bus*
- Voltage and signal level measurement
- Copper cable testing*
- Assistance of privat protocols
- Intuitive operation with cursor keys and softkeys
- Automatic access test sequence (Autotest) with resulst saved in memory
- Up to 256k-Byte internal trace and monitor memory
  (Argus 3u PLUS und Argus 3u NT)
- Data transfer to PC optional WINplus* PC software
- Powerd by BRI, rechargeable batteries or power supply
- Internal rechargeable battery charging
- Remote-Kit control via PC*
- RoHS conformance, CE labelling
- Flash-ROM technology for software updates via PC (WINplus)*

The ARGUS 3u ISDN access tester series features all-round tester for many several tests at different interfaces like BRI, U or POTS*. In addition to the net* (NT) and the terminal (TE) simulation you have the opportunity to test leased lines. Furthermore a complete D-channel monitoring* at the BRI interface is possible (Argus 3u NT). The TE mode (at the U and POTS* interface) is complemented by a POTS monitoring and a U interface leased line test function*.

ARGUS tester feature a handy size design and a high functionality, which simplifies the handling of our devices and makes life for intallers more comfortable.

All other impairments of the local loop will bedetected by the cabling test* or the copper cable testing function*.
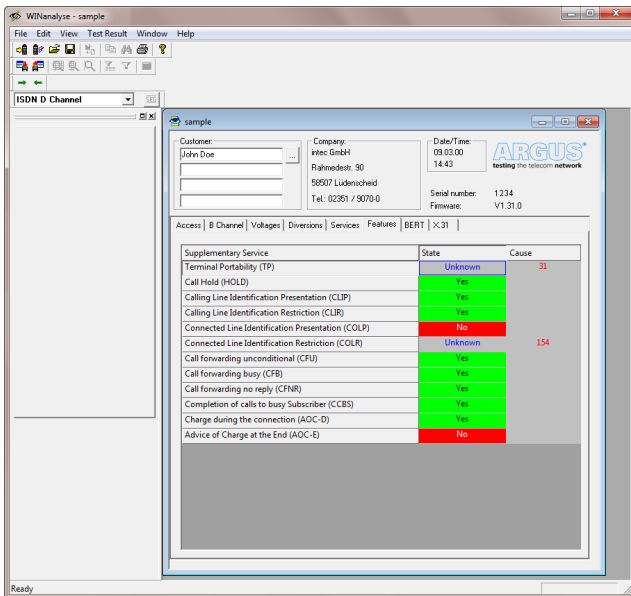
Via the software extension "ARGUS WINanalyse*" you are able to decode measurements of the BRI-D-channel-monitoring*.

ARGUS®3u Series - The BRI S/T interface functions*

- BRI interface in accordance with CCITT I.420
- Operation modes: (TE and NT is possible with one cable)
  - TE (terminal silmuation)
  - NT (net simulation)*
  - Monitor* (passive overplugging at BRI bus with data saving on PC)
- Automatic detection of configuration access and protocol:
  - Point-to-point (P-P) or point-to-multipoint (P-MP)
  - DSS1 or no protocols
  - further protocols: Cornet-T / N / NQ , QSIG, X.25, VN4
  - Display of 1-2-3 and B-channel status
- Display of 1 Infos (Info 0 - Info 4)
- Layer 1 Master- and Slave-mode
- Automated test scenarios for access verification and saving the data in device to create an access test report*
- Automatic service test: determines which ISDN services are available on the send and receive side of the access
- Automatic test of the supplementary services
  - for DSS1: autom. tests of CLIP, CLIR, COLP, COLR, HOLD, TP, CFU, CFB, CFNR, Gebühren A/B (AOC-D/E), CCBS, CCNR, CW, MCID, ECT, 3PTY, DDI, SUB, UUS, support of keypad protocol
- Bus status with interrogation, display and clearing of the activ call diversions CFU, CFB, CFNR for all services
- Automatic X.31(D) Test:
  - „Packet data in D-channel" available?
  - Automatic detection of the TEIs activated in frame handler
  - Simulation of X.31(D) terminal to X.25 network
- Telephone function with call hotkey
  - Call number memory for 10 numbers or keypad protocol commands
  - Displays for incoming calls: calling and called number
  - Displays during call: AOC-D, info elements
  - At end of call: AOC-E in currency or charging units, clearing cause by number/text incl. location
- Selectable B-channel, en-bloc or overlap signalling

- BERT bit error test with evaluation in accordance with G.821
  - Extended self call end-to-end BERT
  - Displays the bit error count and remaining measuring time
  - G.821 analysis: ES, EFS, SES, US, DM and OK evaluation
  - Adjustable service
  - Manual injection of bit errors
  - Adjustable OK/Not-OK bit error rate threshold and evaluation
  - Test pattern in accordance with O.150: 2E11-1, 2E15-1, user defined
  - Measurement period: 1 minute up to infinite
  - Loopbox function for B-channels and all services
  - Audible alarms for bit errors, LOS and LOS counter

(Supplementary service test viewed by WINanalyse*)

- Simultaneous use of two connections
- Terminal or net simulation* for different ISDN bearer and tele sevices
- Displays the clear cause by number/text incl. location in plaintext
- Tests of ISDN leased lines:
  - Telephone function and BERT, selectable B-channels, loopbox function for B-channels
  - BERT in D-channel
- Time measuremnet: time for connecting, time offset of B-channels
- Layer 1 tests and bus supply: Measurement and evaluation of the phantom feed (OK, NORMAL or Restricted Power) and the L1 recieve- and send-signal level of NTBA or PBX
- Cable testing*: Check-up of the terminating impedance in detail. If there are crossed wires or short circuits, the tester displays the right wire.

ARGUS®3u Series - The U interface function

- U interface in accordance with ETR 80 / ANSI T1.601
- Line coding: 4B3T or 2B1Q, RJ 45 with 150 Ohm
- Automatic U interface detection
- Test in TE mode at U interface same as at S/T
- Measurement of U interface voltage incl. OK evaluation
- Endurance testing (up to 1200 mW incl. U/I measurement)
- High-Z monitor with non-intrusive listen-to on U interface (qoud vide POTS)

ARGUS®3u Series - Basic copper cable testing function*

- Impedance measurement (loop) - accuracy: ~ 10%
  - Measurement range: 100 Ohm ... 20k Ohm
  - Resolution: <1k: +/- 10 Ohm, >1k: +/- 100 Ohm
- Capacity measuremt (open) - accuracy: ~ 10%
  - Measurment range: 1nF ... 1µF
  - Resolution: 1nF ... 1µF +/- 1/10 nF

ARGUS®3u Series - The POTS interface function*

- Automatic detection of POTS interface
- POTS telephone function with DTMF and pulse dial mode
- Flash function (40-1000 ms)
- Loop resistance: 400 Ohm
- POTS voltage measurement incl. polarity (on-hook and off-hook)
- CLIP and other caller ID services in acc. ETS 300 659/778
- Supports display FSK and DTMF caller ID
- Adjustable DTMF signal level, signal and intervall lenght
- High-Z monitor with non instrusive listen-to on POTS)
  - Measurement of voltage incl. polarity (up to 300 V)
  - Online display of CLIP, date, time,... caller ID services
  - Online display of DTMF dailing tones incl. A, B, C, D, *, #
- Works as reciever for tone generators

ARGUS®3u Series - Acoustics*

- Automatic headset access detection
- Headset connection over jack plug
- Headset operation mode

Technical features:

- Power Supply: Alternatively supplied by ISDN BRI, rechargeable batteries (AA) or power supply
- Discharging protection of accumulators
- Lifetime: 15-33h (POTS, BRI) depends on type of rechargeable battery
- Keypad: 16-keys, 2 cursor keys, 3 softkeys
- LC-Display: 4 lines with 16 character each, backlighted
- 5 LEDs to indicate status (ISDN-Layer 1-2-3, PC trace, Power Supply)
- Dimensions: H 230 mm W 72 mm D 30mm
- Weight: 395gr (without rechargeable batteries)
- Enviromental conditions:
  - Operating temperature: 0° - +50 ° C
  - Storing temperature: -15° - +70°
  - Relative Humidity: Up to 95 %, non condensing
- CE marking: complies with CE directives
- RoHS conformance
- User safty: EN 61010-1, EN 60950
- Standard package for each model: Tester incl. rechargeable batteries, access cable (BRI and U interface), manual

- Additional equipment (available for each model):
  - WINanalyse PC software (ASN.1 D-channel decoding for Windows 95, 98 ,NT , 2000, ME, XP)
  - Remote-Kit: convenient control of the tester using a PC
  - Headset
  - BRI-128kBERT
  - Calibration certification
  - Copper cable testing function
  - ARGUS car charger

Overview of all available functions depending on the ARGUS 3u series:

Function:	ARGUS® 3u basic	ARGUS® 3u PLUS	ARGUS® 3u NT
BRI-TE	x	x	x
BRI-NT	–	-	x
BRI-Mon.	–	optional	x
U	x	x	x
POTS	optional	x	x
Cabling test	–	optional	optional
WINplus	optional	optional	x
Carrying case	optional	optional	x
TAE adapter	optional	optional	optional
Power Supply	x	x	x
Shock absorbing PVC jacket	optional	optional	x
carrying strap	optional	optional	x

(Scope of delivery)

x: included in delivery
– : unavailable
optional: obtainable on an additional charge (subject to alteration)

*Optional accessories :

- Model dependence (Table right), partial included in delivery:
  - ISDN BRI D-channel-monitoring (passive overplugging)
  - POTS interface
  - Cabling test
  - WINplus PC software
  - Carrying case
  - TAE adapter
  - Power supply
  - Schock-absorbing PVC jacket
  - Carrying strap

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