

details

ARGUS[®] 3u

the practical ISDN-Tester for BRI, U and POTS

- ISDN access tester with integrated handset
- BRI, U and POTS interfaces in terminal mode
- CLIP function on POTS accesses
- POTS monitor with CLIP and DTMF display
- Intuitive operation with cursor keys and softkeys
- Automatic access test sequence (Autotest) with 5 results saved in memory
- Data transfer to PC with WINplus PC software
- Cabling test for the BRI S-bus
- Voltage and signal level measurement
- Powered by the BRI, battery, accumulator or power supply
- Flash-ROM technology for software updates via PC (WINplus)



ARGUS[®]3u - Functions on a BRI S-Interface

- BRI interface in accordance with ITU-T I.430
- Automatic detection of the protocol and the configuration of the access:
 - Point-to-point (P-P) or point-to-multipoint (P-MP)
 - DSS1, 1TR6, BILINGUAL, Cornet-T or NO protocol
- Protocols: DSS1, 1TR6, Cornet-T / N, QSIG(B.C.), X.25(D)
- Display of Layers 1-2-3 and the B-channel status (free/busy)
- Automatic Service Test: determines which ISDN services are available on the send and receive sides of the access
- Automatic test of the supplementary services
 - for 1TR6: interrogation of 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, support of keypad protocol
- Telephone functions with the Call hot-button
 - call number memory for 10 numbers or keypad protocol commands, X.31 test number, own number
 - displays for incoming calls: calling and called number, B-channel, ISDN service, type of number and numbering plan, display info elements, SUB address and UUS-1 data
 - displays during call: AOC-D in currency or charging units, display info elements, DTMF data
 - at end of call: AOC-E in currency/ charging units
 - clearing cause by number/text incl. Location
- Selectable B-channel, en-bloc or overlap signalling
- Measurement of Call Set Up time
- Selectable call parameters for outgoing calls
 - type of number and numbering plan
 - screening and presentation indicator
- Terminal simulation for different ISDN services
 - bearer speech, audio 3.1, audio 7 kHz, data 64 k
 - teleservices tel. 3.1, tel. 7 kHz, fax G3/4, BTX, Teletex, video...
- Bus status test with interrogation, display and clearing of the active 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 the frame handler
 - simulation of X.31(D) terminal to X.25 network
- BERT bit error test with evaluation in accordance to G.821/G.826
 - extended self-call or end-to-end BERT
 - two concurrent BERT on B1 and B2
 - loop-box for B1/B2 simultaneously
 - displays the bit error count and remaining measuring time
 - manual injection of bit errors
 - measuring time: 1 min.- infinite
 - QRS test pattern acc. O.150: 2E11-1, 2E15-1, user defined
 - selectable service for BERT connection
 - G.821 analysis: ES, EFS, SES, US, DM and OK evaluation
 - G.826 analysis: EB, ES, SES, BBE, SDP and OK evaluation
 - adjustable OK/Not-OK bit error rate threshold and evaluation
 - audible alarms for bit errors and loss of QRS sync., LOS counter
- Tests of ISDN leased lines: Telephone function and BERT
 - selectable B-channel (B1 or B2) and two BERT simultaneously
 - BERT in D-channel
 - loopbox function for both B-channels
- measurement of round trip delay and interchannel delay
- Layer 1 tests: measurement and evaluation of the phantom feed (OK, NORMAL or Restricted Power) and the L1 signal level
- Display of Layer 1 Info S0-S4
- Bus installation tests: Checks the correct bus terminating resistors, finds short circuits, crossed and broken lines, results in clear text

details

ARGUS®3u - The U interface and POTS Functions:

- U interface acc. ETR 80 / ANSI T1.601
- line coding: 4B3T or 2B1Q , RJ 45 @ 150 Ohms
- automatic detection of U interface
- test in TE mode at U interface same as at S/T
- measurement of U interface voltage
- progr. D.C. load (up to 1200 mW incl. U/I measurement)
- POTS (a/b) interface with DTMF and pulse dial mode
- flash function (40-1000 ms)
- loop resistance: appr. 400 Ohm
- POTS voltage measurement incl. polarity (hook-on and hook-off)
- automatic detection of POTS interface
- CLIP and other caller ID services acc. ETS 300 659/778
- supports FSK and DTMF caller ID vers. incl. line reversal
- adjustable DTMF signal level, signal and interval length
- high-Z monitor with non-intrusive listen-to on POTS and U
 - measurement of voltage incl. polarity (up to 110 V)
 - online display of CLIP, date, time,... caller ID services
 - online display of DTMF dialing tones incl. A, B, C, D, *,#
 - works as receiver for tone generators

Contact: intec GmbH
Rahmedestraße 90
58507 Luedenscheid - Germany
Tel +49 (0) 2351/9070-0
Fax G3/G4 +49 (0) 2351/9070-70 (G3/G4)
E-Mail: sales@intec-isdn.de
Internet: www.isdntester.com

Technical Features:

- Power Supply: alternatively supplied from ISDN BRI, standard batteries (3x 1.5V Mignon AA), accumulators or the power supply
low power consumption: 180-350 mW (POTS, S/T) battery
lifetime: 15-33h (POTS,S/T), depends on type of battery
- Keypad: 16-keys, 2 cursor keys, 3 context-specific softkeys
- LCD Display: 4 lines with 16 characters each, backlighted
- 5 LEDs to indicate status (ISDN Layers 1-2-3, PC Trace, power supply)
- Interfaces: RJ-45 line input for POTS / U / ISDN, RJ-45 serial interface to PC, RJ-11 for optional headset
- Dimensions: H 230 mm W 72 mm D 30mm
- Weight: 350g (without batteries)
- Environmental conditions:
 - Operating temperature: -10° - + 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
- Standard package: Tester incl. batteries, plug-in power supply, RJ-45-BRI connection cable, U / POTS interface connection cable, test adapter for S-bus wiring tests, manual

Optional Accessories:

- WINplus PC software package for firmware update; display, printout, storing of automated access test; ISDN-D-channel recording, display, and decode included
- WINanalyse PC software (D-channel decoding software incl. ASN.1 of ETSI suppl. services for Windows 95,98,NT, 2000, ME)
- Printer kit for direct output on a parallel printer
- Carrying case
- Shock-absorbing PVC jacket
- Headset or external handset