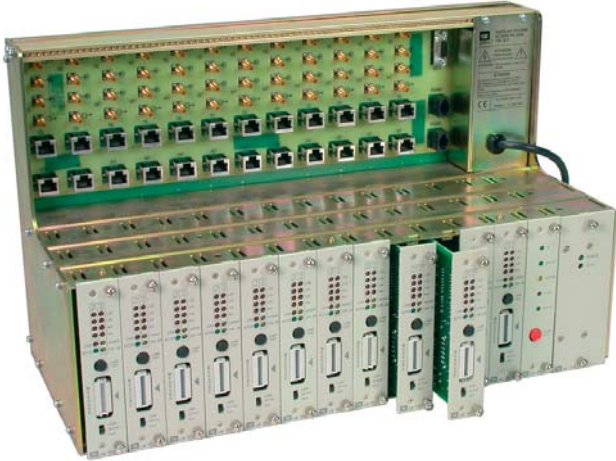


TGA1012

PRI MONITORING AND ALARM SIGNALLING SYSTEM



Modular system

1 access per module, 12 modules per Rack and up to 6 Racks per system

PRI E1/G.704 monitoring test set

Continuous local and remote alarms signalling

Flexible management

E1 streams monitoring by remote side

OVERVIEW

The Aethra® modular system TGA1012 for alarm signalling over E1/G.704 lines, is the best solution for continuous monitoring aimed to carriers, call center, ISPs, public offices and those who need constant monitoring of their lines. The system is modular as the basic unit may be equipped with a variable number of interface modules in order to manage up to a maximum of 12 primary lines. Moreover, these units may be connected in cascade through RS485 serial port, up to a maximum of 6 units for a total number of 72 lines.

In addition to the alarms signalling feature, TGA1012 allows the conversion between interfaces 120 Ohm - 75 Ohm and vice versa, both Network side and Terminal side without any extra piece of hardware.

By using external devices, e.g. the D2000^{PRO}, it is possible to be connected to one of the access under control and carry out tests over the line both toward the network and toward the terminal, as well as performing a monitor test in high impedance.

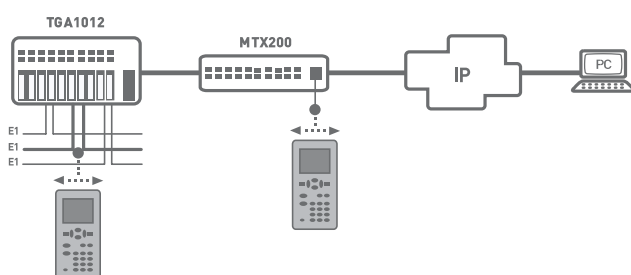
Besides, the optional remote management software, will allow you to control the status of the lines connected to TGA1012, reproducing the device accurately on the screen of your PC.

The optional matrix MTX200, will improve the system management allowing remote automatic access switching, in order to monitor and test the problematic lines using just one external test instrument.

FEATURES AT A GLANCE

- Exhaustive tests over the disturbed access by using an external device like D2000^{PRO}
- E1 frame alarm signalling
- Modular system, up to 72 PRI access under constant monitoring
- Integrated impedance adaptation 75 - 120 Ohm
- Optional remote management by PC
- Optional matrix for automatic access switching to increase the system management power
- Technician's time optimization and money saving

OPERATING MODES



TELECOM INTERFACES

- Primary Rate Access E1 ITU-T (CCITT) Rec.I.431, G.704 ETS 300 011

PROTOCOLS SUPPORTED

- Simulation and monitor* EDSS-1, Q.SIG, 1TR6, TN1R6®, VN4, X.25, X.31, DASS-2, DPNSS, CorNet®-N, -NX, -NQ, -T, PPP, IP, UDP, V.5.1, V.5.2, NI1, DMS100, 5ESS
- Other protocols available by PC

* Simulation and monitor features are available with the ISDN Tester and Analyzer D2000^{PRO}

CONNECTORS

- Primary access interface
 - 120 Ohm RJ45 (ISO 8877)
 - 75 Ohm Microcoax 1.0/2.3
 - Measuring point N2 8wires
 - Remote control port RJ9, RS485
 - TGA box port DB9

ENVIRONMENTAL CHARACTERISTICS

- Dimension N3 19" standard rack
- Weight, with 12 modules ≈9 kg
- Single module ≈180 gr
- Dimensions (mm) 260 (w) x 440 (l) x 190 (d)
- Power
 - External AC/DC adapter 230Vac ±10% @ 50/60 Hz

TEMPERATURE

- Storage/Transport - 25°C to +55°C
- Operating, nominal - 0°C to +45°C
- Operating, limits - 5°C to +50°C
- Humidity, non-condensing
 - ≤ 93% RH @ 40°C
 - ≤ 70% RH @ 50°C

REFERENCE REGULATION

- EMC aspects CEI EN 55022, CEI EN 55022 CEI EN 50082-1
- User's Safety Aspects CEI EN 60950
- CE Marking Class B (residential devices)

ALARMS AND ERROR DETECTED

- Alarms from TE and from NT LOS, LFA, AIS, RAI
- Errors from NT AIS64K, CRC ER

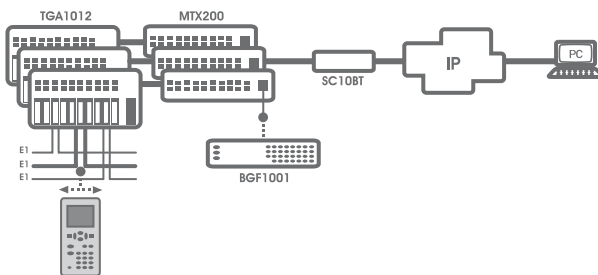
MISCELLANEOUS

- Module mode Loop to NT, Idle, Active mode
- LED Test

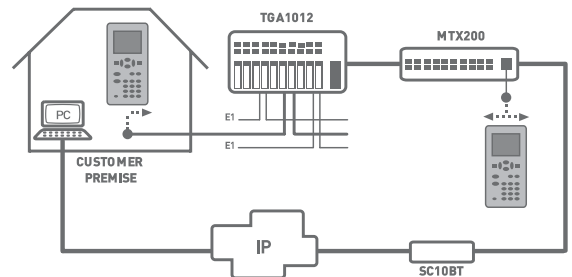
OPTIONS

- MTX200 Automatic E1 access switching matrix
- PC108 for Windows™ Software for remote management
- TGA box External box with audible and visible warning
- SC10BT-2K External adapter to control the system through 10/100BT LAN port

OPERATING MODES



END-TO-END TESTING



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