

kronback tracers

B16



B16 RETURN PATH MONITORING SYSTEM

B16

Return-Path Monitoring System



- Unlimited concurrent users
- Web-based user interface
- TV out presents the spectrum on a downstream channel
- Continuous ingress noise measurements for each input
- 24-hour storage of ingress reports for all inputs
- Ingress alarm with adjustable thresholds
- Up to 256 inputs per system
- Measures complete range 5-65 MHz @ 60 dB dynamic range
- Optional mobile access for Windows Mobile PDA

High capacity

The B16, the flagship of Kronback Tracers' product range, is capable of measuring up to 256 return-path signals (5-65 MHz), and presents the spectrum to an unlimited number of concurrent users over a web-based user interface. Each user can monitor individual inputs simultaneously.

A tool for the whole organisation

The B16 is a highly accurate, state-of-the-art measuring device. As there are no limitations to the number of concurrent users, the B16's advanced features are available to the entire corporate organisation - from senior engineers to call-centre staff.

Historical view

A non-stop logging routine stores samples and saves a historical view of each input. The historical data are accessible via the web-based user interface and provide a 1.5-hour, 6-hour and 24-hour historical view. This enables the user to analyse network performance at a glance. The system stores years of data, and a highly efficient backup routine can extend this period indefinitely.

TV out

The B16 provides a video-output (PAL or NTSC) that can be transmitted to the CATV network, giving the field engineers easy access for measuring the return-path signals received at the head end. The modulated and upconverted signal can be disconnected remotely using the 1-1 RF switch in the B16, ensuring that the TV out is only present in the CATV network when necessary.

Windows Mobile client

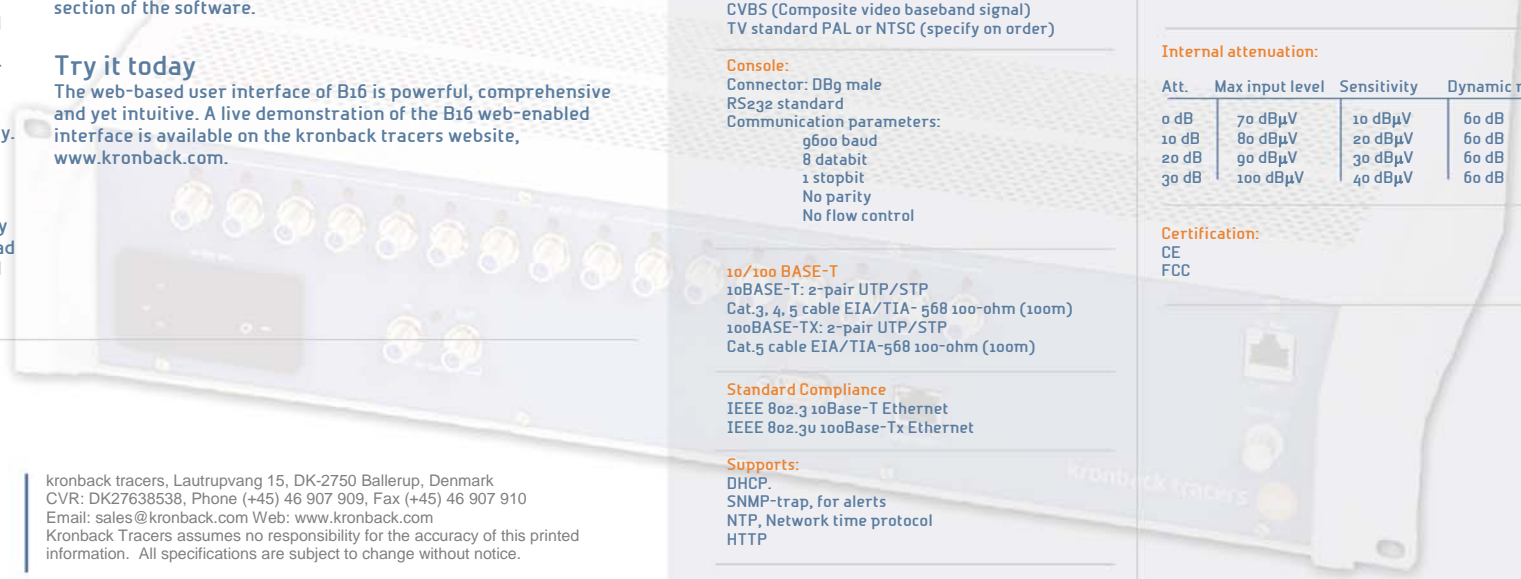
A PDA client is available for accessing the B16. This allows technicians full access at all locations.

Ingress alerts

Intelligent alarm-handling ensures that alarms received from the B16 are relevant and reliable. A sophisticated consolidation routine monitors that each return-path meets the required uptime. The decision period can be set by the user at from 5 minutes up to 24 hours. One email is sent after each decision period - but only if the required uptime is not met. An instant alarm routine can send an immediate alert if the ingress noise exceeds the threshold set in the instant alarm section of the software.

Try it today

The web-based user interface of B16 is powerful, comprehensive and yet intuitive. A live demonstration of the B16 web-enabled interface is available on the kronback tracers website, www.kronback.com.



specifications

RF specifications

Input 1 - 16:
Frequency range 5-65 MHz
Connector: F-type 75 ohm, AC coupled
Return loss: >20dB
Isolation between inputs >60 dB

RF switch

In
Frequency range 5-862 MHz
Connector: F-type 75 ohm, AC coupled
Return loss: >20dB@40Mhz, degrading -1.5 dB/octave

Out

Frequency range 5-862 MHz
Connector: F-type 75 ohm, AC coupled
Return loss: >20dB@40Mhz, degrading -1.5 dB/octave

Disconnected mode:
LED is not lighting
Insertion loss >60 dB

Connected mode:
LED is lighting
Insertion loss < 1 dB

B+ bus

Connector RJ45
Power out +12V acc. to PDE: IEEE803.2af (pin 4,5 & 8,7)
Data protocol: kronback tracers proprietary

Video out:

Connector: BNC 75 Ohm
CVBS (Composite video baseband signal)
TV standard PAL or NTSC (specify on order)

Console:

Connector: DB9 male
RS232 standard
Communication parameters:
9600 baud
8 databit
1 stopbit
No parity
No flow control

10/100 BASE-T

10BASE-T: 2-pair UTP/STP
Cat.3, 4, 5 cable EIA/TIA- 568 100-ohm (100m)
100BASE-TX: 2-pair UTP/STP
Cat.5 cable EIA/TIA-568 100-ohm (100m)

Standard Compliance

IEEE 802.3 10Base-T Ethernet
IEEE 802.3u 100Base-Tx Ethernet

Supports:

DHCP
SNMP-trap, for alerts
NTP, Network time protocol
HTTP

Physical Specifications:

Height 88mm (2 units)
Width 482 mm (standard 19" dimensions)
Depth 245mm (9.65")
Weight 6 kg (13.3 lb)

Electrical

Supply Voltage: 90 - 250VAC. 47-63Hz
Max power consumption: 60 watt
Powersupply connector: IEC
Double pole on/off switch
Fuse: 2A T
Spare Fuse incorporated in IEC socket.

Environmental:

Operating Temperature: 5°C ~ 45°C
Storage Temperature: -20°C ~ 55°C
Operating Humidity: 10% ~ 90%, non-condensing
Fan-less device
No moving mechanical parts inside.

System:

Accuracy ± 1 dB
Max Input level 100 dBmV (1 CW)

CTB > 60 dBc
CSO > 60 dBc

Data Acquisition

Sampling speed 210MS/s
Resolution 12 bit
Effective no. of bit (ENOB) 10,6 bit

FFT (Fast fourier transform)

Filter type: FLAT TOP
Filter bw: 300kHz

Internal attenuation:

Att.	Max input level	Sensitivity	Dynamic range
0 dB	70 dBμV	10 dBμV	60 dB
10 dB	80 dBμV	20 dBμV	60 dB
20 dB	90 dBμV	30 dBμV	60 dB
30 dB	100 dBμV	40 dBμV	60 dB

Certification:

CE
FCC

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Kronback Tracers is an innovative, rapidly-growing company. We operate globally and our dedicated and experienced staff are ready to serve our customers worldwide. Our philosophy is seeing is believing, so we encourage you to contact our sales organisation to test the B16 products on your premises. Call us today on +45 46 907 909 or email sales@kronback.com.

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