

kronback tracers

P4i

P4i
HFC FIELD ANALYZER



FEATURES

- * Returnpath spectrum analyzer
- * Downstream carrier monitor
- * Sweep system
- * Pilot tone generator
- * QAM signal generator
- * DOCSIS burst analysis
- * Sun readable display
- * Smartphone and tablet support
- * Ethernet and BLUETOOTH access
- * High battery performance



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P4i HFC FIELD ANALYZER

RETURNPATH SPECTRUM ANALYZER

The Kronback Tracers P4i returnpath analyzer provides a realtime spectrum display ranging from 2 to 85 MHz. It can be placed in the headend/hub site or in street racks for temporary measurement usage. In street racks the 3 inputs can be used to analyze multiple HFC branches for noise.

DOWNSTREAM CARRIER MONITOR

Downstream carriers can be monitored within the 50-1000 MHz range. Precise readout of analog and digital carriers is presented online.

SWEEP SYSTEM

The P4i features a powerful up- and downstream sweep system supporting the full returnpath range of 2-85 MHz and downstream from 50 up to 1000 MHz. Together with the powerful X16 headend unit, a full and precise network alignment can be performed effectively.

PILOT TONE GENERATOR

The P4i provides 2 pilot tones for precise network alignment. Each pilot tone can be set frequency and level agile within the full 2-1000 MHz range.

QAM SIGNAL GENERATOR

A QAM signal can be generated within the full returnpath range of 2-85 MHz. The level and frequency can be set agile, and choices of QPSK up to 64-QAM can be selected. This feature can be used together with the QAM analyzing feature of the X16 headend unit to verify returnpath performance.

DOCSIS BURST ANALYSIS

Analysis of DOCSIS burst are performed online. Constellation diagrams are presented in the colour display, and the MAC address of bursts are extracted and presented for advanced fault finding purposes.

SUNREAD DISPLAY

A state of the art QVGA color display ensures a precise and pleasant readout of the P4i. The display is anti reflective and ensures excellent working conditions, even in direct sunlight exposure.

SMARTPHONE AND TABLET SUPPORT

The P4i can be accessed via the built in BLUETOOTH antenna or via ethernet.

SPECIFICATIONS

INPUT 1-3 & I/O

- Connector: F-type 75 ohm,
- AC coupled, 100V DC isolation
- Frequency response: 2-1000 MHz
- Return loss returnpath: >18dB
- Return loss downstream:
- 18dB@40 MHz, - 1,5 dB/oct
- Isolation: >60 dB

PILOT AND QAM

- Frequency range 2-85 MHz
- Frequency steps 10kHz
- Frequency error <1kHz
- Residual phase noise >110dBc/Hz@10kHz
- Level range 30 dBuV - 110 dBuV
- Level steps 1 dB
- Level error <0,5 dB
- Return loss: >20dB

CONNECTORS

- F-type 75 ohm, AC coupled
- Ethernet RJ45
- USB connector: USB type mini-B

INDICATORS

- PoE Power status
- Charging status
- EVENT status

LCD DISPLAY

- Backlight colour: White
- Display mode: TFT, QVGA dimension 55mm x 41 mm
- Viewing angle Horizontal >70 deg
- Vertical >65 deg

PHYSICAL SPECIFICATIONS

- Height: 135 mm
- Width: 83 mm
- Depth: 23 mm
- Weight: 375 g

MANAGEMENT

- Remote
 - Web
 - SNMP
 - SNMP
 - USB
- Local control
 - Pushbuttons

ELECTRICAL

- Max. power consumption: 6 watt
- USB power: 5V
- USB current draw: 100mA, negotiable to 500mA
- Fuse: Internal autofuse
- Power over Ethernet, IEEE802.3af(pin 4,5)

NETWORK

- IEEE 802.310Base-T Ethernet
- IEEE 802.3u 100Base-Tx Ethernet
- IEEE 802.3af Power over Ethernet
- Fixed IP address and DHCP support

ENVIRONMENTAL

- Operating temperature: 5°C ~ 45°C
- Storage temperature: -20°C ~ 55°C
- Operating humidity: 10% ~ 90%, non-condensing

BATTERY

- Type: Li-ion, rechargeable
- Nominal Voltage: 3.7 V
- Minimum Capacity 1.8 AH @ C/5 Rate @ 23 °C
- Cycle Life > 500 cycles
- Memory: No memory effect
- Operating temp: -20 °C to 60 °C
- Safety: Meets UL1642 standard
- Transportation: Exempted from regulations

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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 our products on your premises.

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