

Through-Line Power Meter for installation tests



The new FIT-USB from Schomandl has a large and easy-to-read monochrome graphic display with 240x128 pixel and a touch function.

The new design and compact housing is ideal for a handheld device.

Forward and reverse power (in average or burst mode) or VSWR, by automatic identification of CW, GSM, TETRA and DMR can be measured simultaneously.

The DC voltmeter with numerical and bar-graph display is already built in. So there is no need for an extra instrument to locate further malfunctions in car installation kits for mobile phones and in the vehicle's electrical System.

The handheld FIT-Viewer provides easy data exchange and firmware update via USB-Flash Drive. It is possible to communicate with the RF-Head via USB from a PC or Notebook - without the handheld FITViewer as well.

The FIT-Viewer is battery operated with long operation and a short charging time and designed to supply the RF-Head, too.

Features RF - Head

- Directional Coupler available in the range from 25 MHz to 1000 MHz GSM,
- Power measurement in the range from 0,1mW to 300W
- Simultaneous reading of power and antenna matching
- Measures average power or burst power
- Automatic identification of CW, GSM, TETRA and DMR
- VSWR measurement
- Min. / Max. - hold
- User offset in 0,1 dB steps
- USB connectivity for PC use or FIT - Viewer operation

Features FIT - Viewer

- Handheld for battery operation of RF-Head
- DC-Voltmeter with history memory
- Easy Data exchange and firmware update via USB-Flash Drive



Technical Data

	Parameter	RF - Head 1G030	RF - Head 1G300
General	Powermeasurement	1,0 mW to 30 W 0,1 mW to 3 W ³⁾	10,0 mW to 300 W
	Uncertainty	< 1,0 dB ^{1) 2)}	< 1,0 dB ^{1) 2)}
	Frequency Range	25 MHz to 1000 MHz	25 MHz to 1000 MHz
	SWR (50 Ω)	1,10 bis ∞	1,10 bis ∞
	Insertion Loss	max. 0,1 dB	max. 0,1 dB
	Directivity	min. 30dB	min. 30dB
	dBm	0,1 dB	0,1 dB
Resolution	Watt	0,01 W (P < 30,0 W) 0,001 W (P < 10,0 W)	0,1 W (P ≥ 100,0 W) 0,01 W (P < 100,0 W) 0,001 W (P < 10,0 W)
	VSWR	0,01 (SWR < 2,0) 0,10 (SWR < 5,0) 0,50 (SWR < 10,0)	0,01 (SWR < 2,0) 0,10 (SWR < 5,0) 0,50 (SWR < 10,0)

1) Temperature range 20 °C bis 25 °C 2) Power 1,0 W (+30 dBm) 3) Only in 2->1 mode

	Parameter	FIT - Viewer Handheld
General	Voltage Range	10V - 20V - 50V
	Uncertainty	< 1,0 % of voltage range
	Operation time	Up to 8 hours
	Charging time	< 4 hours