Portable optical power meter

Fibrain FCPM-18/1310

Fibrain FCMP-18/1310 portable power meter is used to measure CWDM channels. The automatic identification and simultaneous measurement of all 18 CWDM channels compliant with ITU-T G.694.2, no movable and scanning parts due to built-in CWDM filters (and thus significantly higher reliability) and power estimation for grey (non-CWDM) 1310 nm lasers are its unique features. By utilizing its settable offset function, the FCMP-18/1310 optical power meter can be used for power estimation of CWDM channels output from a monitoring port (often called also the testing port) that is built into CWDM multiplexers and demultiplexers.

Functionalities:

- Measurement of all **18 CWDM channels,**
- **Automatic identification** of CWDM channels,
- Very short measurement time, no movable parts,
- Power estimation of grey (Fabry-Perot) 1310 nm channels,
- USB interface for **transferring data to computer,**
- Measurement in dBm and dB, offset option (e.g. 20 dB for 1% port monitoring) and reference level in regard to any channel,
- Data presentation as a **table or chart,**
- **Built-in battery**, USB battery recharger,
- Protective rubber cover,
- Colorful backlit LCD 2.8"screen.

Technical data	
Optical parameters	
Wavelength range	1270-1610 nm
Number of CWDM channels	18
Central CWDM wavelengths	1270/1290/1310/1330/1350/1370/1390/1410/1430/1450/1470/1490/1510/1530/1550/1570/1590/1610 nm
CWDM channels measurement accuracy	+/-0.5 dB @-20 dBm
Dynamic range	+10/-40 dBm
Resolution	0.01 dB
Measuring units	dBm, dB
Modes of operation	Real Time (PM), Single Scan (CWDM)
Reference level options	offset, any CWDM channel
Warning threshold setting	Yes
Connector type	SC APC
Other functional parameters	
Battery running time	420 min
Auto Off function	Yes
Backlit display	Yes
Data storage	Yes
PC interface software	USB
Memory	1000 records
Battery recharge interface	USB
Mechanical and environmental parameters	
Weight	260 g
Dimensions	87x173x40 mm
Power consumption	0.25A
Display	color, LCD, 2.8''
Working temperature	-20/+55 ° C
Humidity	10%/90% no condensation