

ID-2-2 CHROMATIC DISPERSION MEASUREMENT SET



The ID-2-2 Chromatic Dispersion Measurement Set is designed for measurement of chromatic dispersion in singlemode optical fibers.

It provides chromatic dispersion measurement in the installed communication link, whose length exceeds 25 km.

The operating principle is based on the phase-shift method (IEC 60793-1-42, ITU-T G.650).

The instrument consists of two modules:

- the optical transmitter module with six measuring laser diodes
- the optical receiver module for receiving and processing optical signals from fiber under test output.

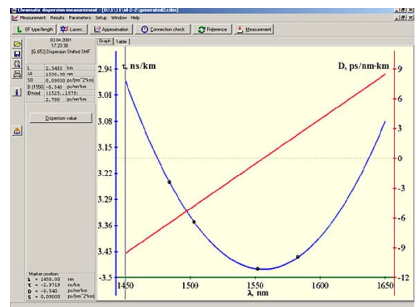
During measurement performance, the reference optical signal is transmitted through a separate optical fiber.

The approximation formulae conform to the ITU, IEC standards.

The ID-2-2 operating control, data processing, displaying and storing the measurement results are provided by a PC under the Windows 95/98/NT. The PC is connected to the optical receiver module. The optical transmitter module operates independently.

The software allows calculating all the optical fiber chromatic dispersion parameters:

- chromatic dispersion coefficient at any wavelength within the measured wavelength range;
- zero dispersion wavelength;
- chromatic dispersion slope.



Specifications

Wavelength range, nm	1510...1610
Dynamic range, dB	42
OF length, km	25...160
Uncertainty:	
- dispersion coefficient, %	1
- zero wavelength, nm	0.5
- slope, %	1.0
Repeatability:	
- dispersion coefficient, %	0.005
- zero wavelength, nm	0.11
- slope, %	0.13
Measurement time, s	10
Dimensions, mm (transmitter/receiver)	293×255×60 / 293×255×60
Weight, kg (transmitter/receiver)	4 / 3