

Reference measuring instrument (primary standard) of unit of polarization modal dispersion in optic fiber



STRUCTURE OF REFERENCE MEASURING INSTRUMENT

- Unit of broadband sources of optic emission;
- Unit of interferometer and controller of polarization state;
- Unit of samples of polarization modal dispersion in optic fiber;
- PC.

Reference measuring instrument (primary standard) of PMD unit is **DESIGNED FOR** reproducing, storing and transmitting of PMD unit to the working standards of PMD unit and high-precision PMD measuring instruments, calibration and verification of PMD measuring instruments, applied in production and operation of fiber-optic communication lines.

ХАРАКТЕРИСТИКИ ЭТАЛОННОГО ИЗМЕРИТЕЛЯ

Method of polarization modal dispersion measurement in optic fiber (PMD)	interferometric
Operating wavelength at polarization modal dispersion measurement, nm	(1310 ± 30) (1550 ± 30)
Reproducible PMD values, ps:	
· in regime of weak mode coupling	0,5; 5,0; 10,0; 120
· in regime of strong mode coupling	1
Residual systematic measurement error PMD, ps	0,007
Mean square deviation of measurement result PMD, ps	0,005·τ, where τ – PMD value
Insertion loss*, dB, not more than	10

*Characteristics of reference measuring instrument can be specified by request of the customer.