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Amplitude Quality Monitor for Optical Fiber Communication

Amplitude quality monitor (AQM) is used to measure the amplitude of the optical signal, not the average optical power. AQM features passive in optics with the high sensitivity and the wide dynamic input range.

The input of AQM is the optical signal and the output voltage is proportional to the logarithm of the input optical signal amplitude. The measurement of the optical signal amplitude can indicate the quality of the optical fiber communication more accurate than that of the average power, it is specially true when the optical fiber communication system is equipped with the optical amplifier and /or the external modulator.

As a passive device of optics, AQM never generates any optical signal to interfere the normal operation of the optical fiber communication system under monitor.

The frequency range of the AQM input is from 100 Mbps to 2.5 bps

Since the output of AQM is the logarithm of the input, , the input dynamic range is from -40dBm to -8dBm, no gain setting is required

AQM is under development.