



# Optical nodes

## Optical receiver

Optical receiver with capability to monitor and control all major functions via Ethernet.

- monitor and control all major receiver parameters via Ethernet (transmission protocol TCP/IP (supports SNMPv2c))
- supplying with free management software OD\_Explorer
- input and output controllable ports for external devices
- electronic setting of all parameters
- AGC based on optical input level
- 1 or 2 RF outputs, switchable
- thermal compensation of RF output level drift
- digital indication of optical input level and other parameters
- die-cast housing
- connectors:  
RF output and test - type F  
optical - SC/APC  
Ethernet - RJ45



Technical specifications	
T Y P E	OD120
Ordering number	02850
Optical wave length	1100-1600 nm
Optical input level (AGC range)	-7 ...2 dBm
Noise current density	≤ 7.0 pA/√Hz
Frequency range	47-862 MHz
Impedance	75 Ω
Return loss	18 dB/40 MHz-1.5 dB/oct
Frequency response	± 0.75 dB
Output level (AGC controlled, 4.9% OMI)	113 dBμV
Output level CTB (≤ 60 dB, 42 ch. Cenelec)*	113 dBμV
Output level CSO (≤ 60 dB, 42 ch. Cenelec)*	113 dBμV
Interstage attenuator <span style="border: 1px solid blue; border-radius: 50%; padding: 2px;">pr.</span>	0-15 dB by 1 dB step
Interstage equalizer <span style="border: 1px solid blue; border-radius: 50%; padding: 2px;">pr.</span>	0-15 dB by 1 dB step
Loss in test point	-20 dB ± 0.7 dB
Power consumption	187-250 V~ 50 Hz 14 W
Operating temperature range	-20° ÷ + 50° C
Dimensions/Weight (packed)	213x138x76 mm (with fixing earth)/1.4 kg

\* output level (CTB, CSO) is measured with 6 dB interstage equalizer

pr. software control

**Remotely monitored parameters:**

- temperature
- optical input power
- RF output level
- internal DC supply voltage

**Remotely controlled parameters:**

- value of first attenuator
- value of second attenuator
- value of equalizer

**Remotely controllable ports:**

- alarm circuit input
- relay output
- UPS status port

