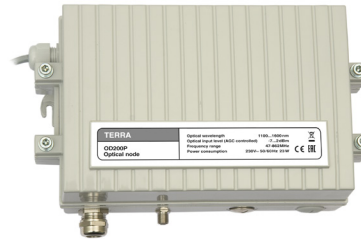




Optical nodes

Optical nodes

- electronic setting of all parameters
- AGC based on optical input level
- plug-in return path optical transmitter with integrated data transmitter for remote monitoring subsystem "MasterWatch", [page 130](#)
- digital indication of optical input level and other parameters on built-in LED display
- possibility to control node parameters by HMS transponder



Technical specifications		OD200	OD200P
T Y P E			
Ordering number		02816	02817
Optical wavelength		1100-1600 nm	
Optical input level (AGC range)		-7... 2 dBm	
Optical return loss		> 45 dB	
Noise current density		max. 8.0 pA/√Hz	
Frequency range*		47/75/87-862 MHz	
Return path*		5-30/55/65 MHz	
Impedance		75 Ω	
Return loss		≥ 18 dB at 40 MHz-1.5 dB/oct	
Frequency response		± 0.75 dB	
Output level (AGC controlled, 4.9% OMI)		114 dBμV	
Output level CTB (EN50083-3)**		112 dBμV (42 ch.)	
Output level CSO (EN50083-3)**		113 dBμV (42 ch.)	
Interstage attenuator	pr.	0-10 dB by 0.5 dB step	
Interstage equalizer	pr.	0-10 dB by 0.5 dB step	
Return path attenuator	pr.	0-25 dB by 1 dB step	
Return path ingress switch	pr.	0/-6/-<-50 dB	
Reverse loss (from output to reverse transmitter)		max. 6.0 dB	
Mains voltage, 50/60 Hz		24-65 V~	187-250 V~
Power consumption, max.		26 W	23 W
Current consumption	24 V AC	1.7 A	-
	42 V AC	0.95 A	-
	65 V AC	0.6 A	-
Maximal AC pass current		7 A	
Loss in internal output test point		-20 ± 0.5 dB	
Loss in internal reverse path test point		-20 ± 0.5 dB	
Return path signal injection point	loss	- 30 dB	
	frequency range	5-200 MHz	
Optical connectors		SC/APC	
Output connectors		PG11	
Test point connectors		F	
Hum modulation distance (7 A)		min. 65 dB	
Enclosure category		IP 64	
Operating temperature range		-20° ÷ + 50° C	
Dimensions/Weight (packed)		229x159x120 mm (main body); 269x159x120 mm (with fixing ears)/3.2 kg	

* frequency range depends on inserted plug-in diplexer

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

pr. software control

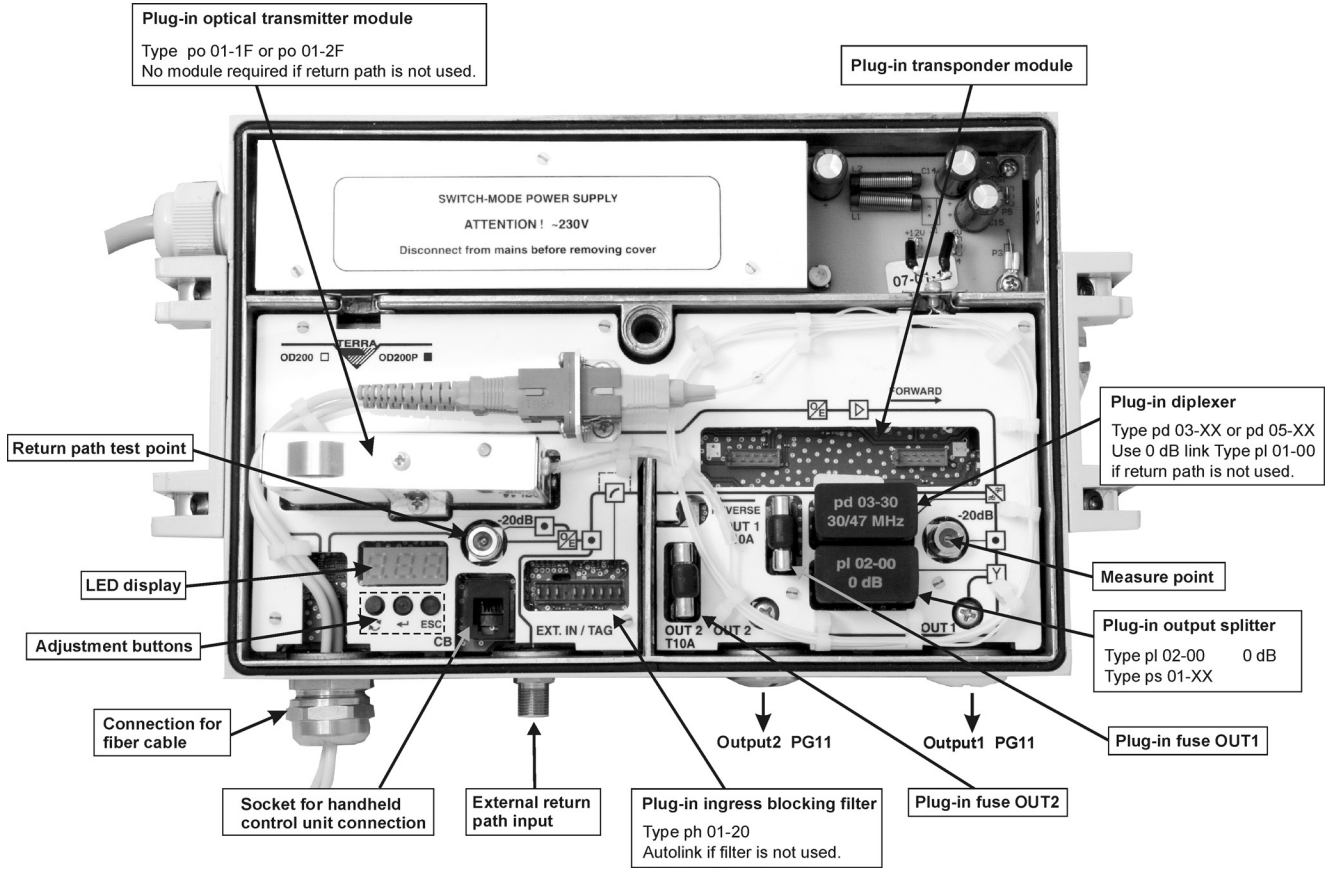
Remotely monitored parameters using monitoring subsystem "MasterWatch":

- internal DC powering voltages
- current consumption
- temperature
- input optical level
- AC remote powering voltage
- status of external access sensor
- bias current of laser diode

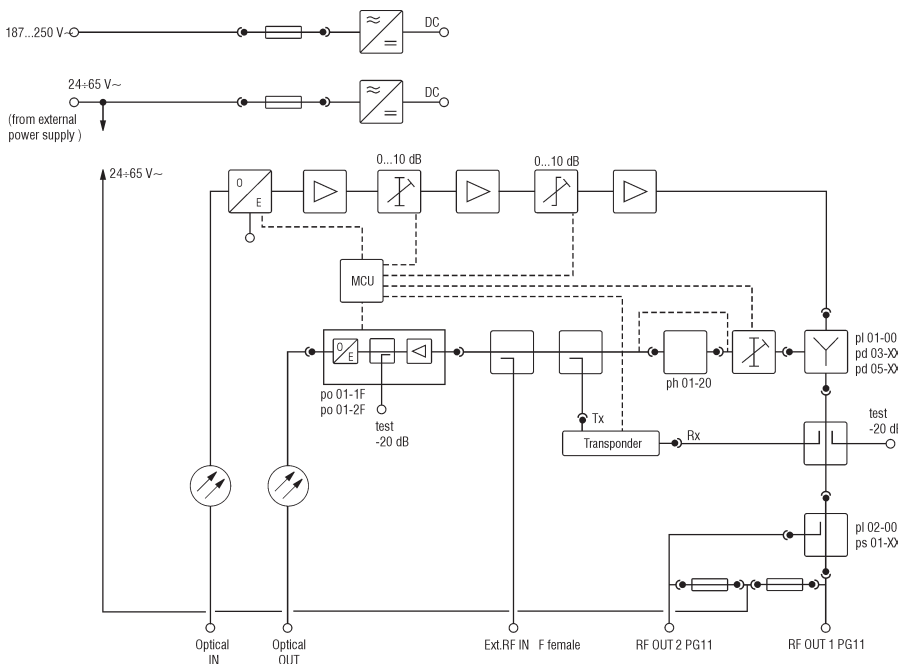


Optical nodes

Optical nodes



Structure diagram



Ordering notes

Band	no return path	pl 01-00
	30/47 MHz	pd 05-30
	55/75 MHz	pd 05-55
	65/87 MHz	pd 05-65
	85/108	pd 05-85
Output	0 dB output1/no output 2	pl 02-00
	3.5 dB output1/3.5 dB output 2	ps 01-03
	2.0 dB output1/6.0 dB output 2	ps 01-06
	1.5 dB output1/10 dB output 2	ps 01-10
	1.0 dB output1/14 dB output 2	ps 01-14
	0.5 dB output1/18 dB output 2	ps 01-18
Return path	1 mW Tx	po 01-1F
	2 mW Tx	po 01-2F
	20 MHz RP band	ph 01-20