

## KATHREIN ORA Accessories

### ORD 120 OPTICAL RECEIVER MODULE

- Optical reception of CATV frequency multiplex signals from a single monomode glass fibre
- Extremely low noise receiver (best in class)
- Optical plug connectors: SC/APC
- For operation with ORA 9022, ORA 9022-1G, ORA 920 and ORA 921



Accessories (not included in the product package)

#### OFC 90/SC (order no. 24810101):

Optical patch cable, SC/APC - SC/APC for ORD 120

### OSR 9003 OPTICAL RETURN PATH TRANSMITTERS

- Optical return path transmitter modules for use in the ORA 9222-1G2/-1G, ORA 9022-1G and ORA 920/921
- Electro-optical conversion of the return path signals
- DFB laser with optical isolator
- Optical output power: +6 dBm or +3 dBm (switchable)



TYPE		OSR 9003
Order no.		24610201
Optical wave length	nm	1310
Optical output level	dBm	+3
Frequency range (via diplexer in ORA 9022/ORA 920)	MHz	5-65
Frequency range (via broadband input in ORA 9022/ORA 920)	MHz	5-200
Relative Intensity Noise (RIN)	dB/Hz	-155
Impedance	$\Omega$	75
Return loss (5 MHz)	dB	> 18
Frequency response	dB	$\pm 1.0$

### TVM 1000 - MONITORING TRANSPONDER DOCSIS/EURODOCSIS, FREQUENCY-AGILE

- Monitoring transponder for compact/house connection amplifiers and optical compact receivers (see table)
- Monitors various parameters such as voltage, current drain and internal temperature
- Controls the Ingress Control switch in correspondingly equipped devices
- Transmission in DOCSIS or EuroDOCSIS protocol
- Frequency-agile in range 5-65 MHz and 90-862 MHz

TYPE		TVM 1000
Order no.		26210086
Input frequency range	MHz	90-862
Input level range	dB $\mu$ V	48-78
Output frequency range	MHz	5-65
Max. output level	dB $\mu$ V	113-118
Power consumption	W	3.5
Transmission protocol		DOCSIS/EuroDOCSIS 2.0
Suitable for		VGO 939, VGO 939-1G, VGF 939, VGF 939-1G, VOS 952/953, VOS 952-1G, VOS 953-1G, ORA 9022, ORA 9022-1G, ORA 920/921, VGP 9033 as of version A03 (Nov. 2008), VGP 9033-1G, VGP 9041 as of version A02 (Nov. 2008), VGF 9030/9040

