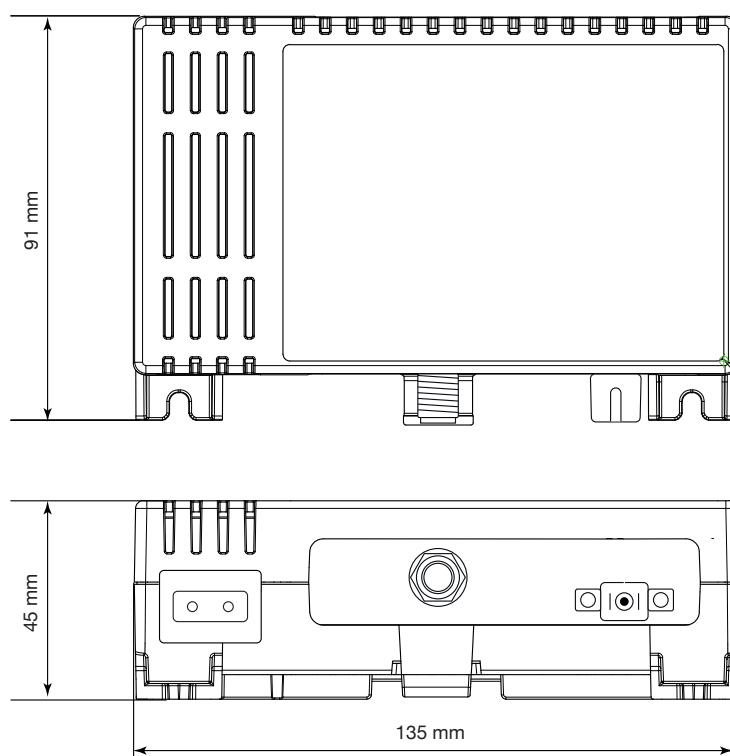


INSTALLATION MANUAL

Optical receiver FCO-TC








- 1550nm optical filter
- Optical monitor Led
- A.G.C output levels
- Self power source 100... 240V
- Up to 64 PON
- Wall mounting and DIN rail



Ready for **UHD TV** **MADE IN ITALY**

Rel. 1.0

OPTICAL RECEIVER		FCO-TC
OPTICAL INPUT		1
RF OUTPUTS		1
OPTICAL		
OPERATION WAVELENGTH	nm	1550
INPUT POWER RANGE	dBm	-14... 0
INPUT CONNECTOR TYPE		SC/APC
TV TERRESTRIAL		
OUTPUT BANDWIDTH	MHz	80... 790
LEVEL ADJUSTER RANGE	dB	0... -20
MAX TOTAL OUTPUT LEVEL	dBμV	105
OTHERS		
ISOLATION TV TERR./SATELLITE	dB	≥ 40
OUTPUT RETURN LOSS	dB	> 12
OPERATING VOLTAGE	VAC	100... 240
MAXIMUM CONSUMPTION	W	3
OPERATING TEMPERATURE	°C	0... 50
DIMENSIONS	mm	135 x 91 x 45

DESCRIPTION OF SYMBOLS AND ELECTRICAL SAFETY	
	The equipment complies with the CE requirements
	The equipment is designed for indoor use only
	Equipment grounding terminal
	This symbol indicates that the equipment complies with the class II equipment safety requirements
	To avoid the risk of electric shock, do not open the equipment.
	The equipment is compliant with RoHS 2011/65EU
	Dispose according to local authorities recycling processes

Safety instructions

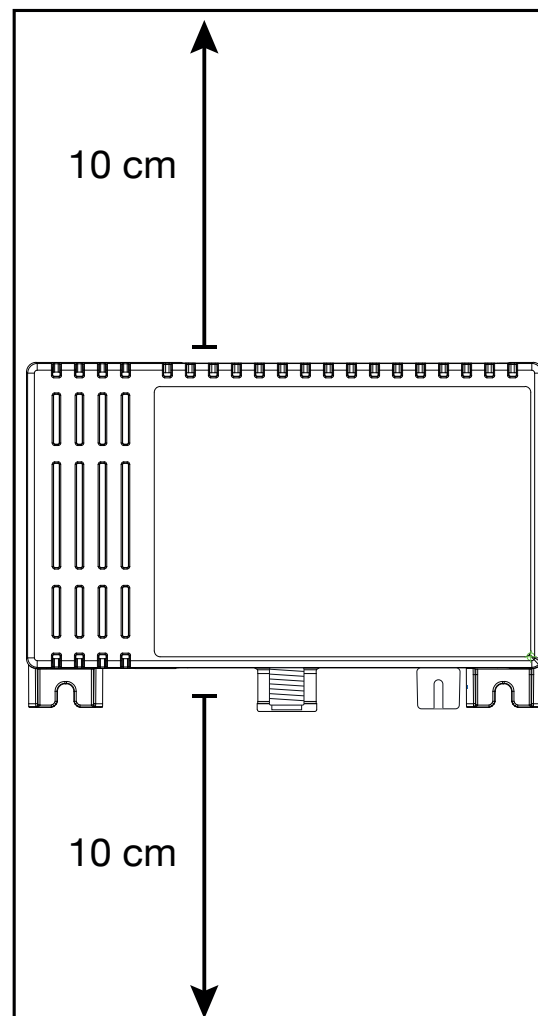
1. Read carefully these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Do not expose this apparatus to extreme temperatures
6. Do not install this apparatus near water or expose to rain and moisture
7. Place the apparatus in a dry and well-aired location
8. Install the unit on a horizontal or vertical wall
9. Connect the power adapter cord to a detachable power supply socket
10. Unplug the apparatus during lightning storms or when unused for long time
11. Only use accessories specified by the manufacturer
12. Do not remove the cover without disconnecting from the mains first
13. Room temperature should not be lower than 0°C and higher than 50°C
14. Please allow air circulation around the apparatus



Installation warnings

- In order to avoid any fire or electrocution risk do not expose the products to rain or moisture.
- The products must not come into contact with water or be wet by liquids.
- Do not place the products next to heat source or moisture..
- In case of closet or waterproof cabinet installation provide for a proper ventilation and minimum distance observation (see below drawing).
- Set the mains connection according to the regulations in force of the installation country and in order to be easily disconnected.
- Any SC/APC optical output connector cleaning operations must be carried out with turned off device

Recommended distance



FCO-TC Description

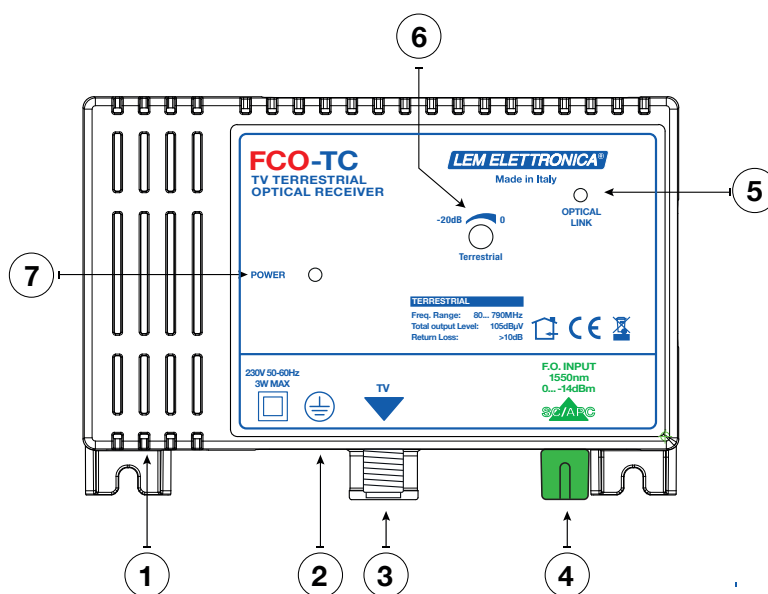
Packaging content

01 Optical FCO-TC receiver

01 Power cord

01 Installation manual

- ① Power source input 100... 240VAC
- ② Ground bonding
- ③ Mix output: FM; DAB; DTT
- ④ SC/APC optical input
- ⑤ Led status Laser
- ⑥ Terrestrial band level adjuster
- ⑦ Led status power source



The optical receiver **FCO-TC** allows the conversion from optical to electric to the terrestrial television signals (DVB-T/T2; FM E DAB) over a single-mode fibre optical cable.

DC Input

Off= No power

Green= Power

Optical Link

Off= no optical link

Green= optical link

Terrestrial TV input adjustment

The optical receiver **FCO-TC** must be used with the transmitter **TX-T**. For a correct transmitter / receivers set up please follow the tables below.

Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-TC max. Terrestrial output level (single Mux)
4	- 7	70 dBµV	90 dBµV
8	- 10	73 dBµV	90 dBµV
16	-13,5	76 dBµV	90 dBµV
32	- 17	82 dBµV	90 dBµV
64	- 21	87 dBµV	86 dBµV

With 32 DVB-T/T2 MUX

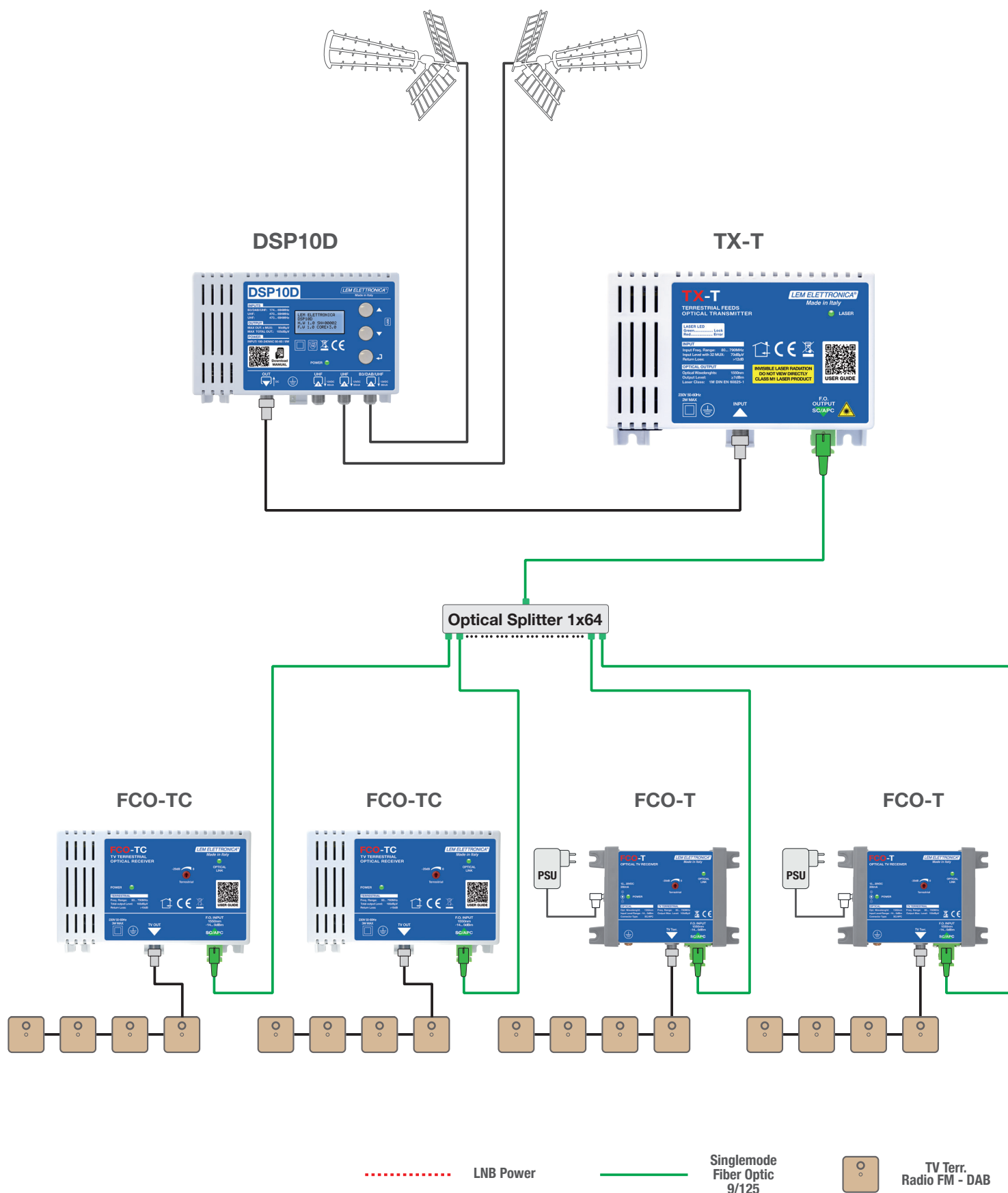
Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-TC max. output level (single Mux)
4	- 7	73 dBµV	93 dBµV
8	- 10	76 dBµV	93 dBµV
16	- 13,5	79 dBµV	93 dBµV
32	- 17	85 dBµV	93 dBµV
64	- 21	90 dBµV	90 dBµV

With 16 DVB-T/T2 MUX

Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-TC max. output level (single Mux)
4	- 7	76 dBµV	96 dBµV
8	- 10	79 dBµV	96 dBµV
16	- 13,5	82 dBµV	96 dBµV
32	- 17	88 dBµV	96 dBµV
64	- 21	90 dBµV	90 dBµV

With 8 DVB-T/T2 MUX

Note: FM and DAB signal level must be at least 10dB lower than the DTT signal



Distribution of terrestrial TV signals over a single-mode optical fiber.

Terrestrial TV signals are selected and equalized by a **DSP10D** programmable headend and sent to the **TX-T** optical transmitter for distribution over a single-mode optical fiber.

The **FCO-TC** and **FCO-T** optical receivers convert the signals into a format suitable for distribution via coaxial cable, making them compatible with standard TV equipment.

Label with serial and tracking data

AA1000015019-X1020L

AA	100001	50	19	-X	10	20	L
└──┬──┘	└──┬──┬──┬──┬──┬──┘	└──┬──┘	└──┬──┘		└──┬──┘	└──┬──┘	
Model	Serial #	Manuf. Week	Manuf. Year		HW Rel.	FW Rel.	