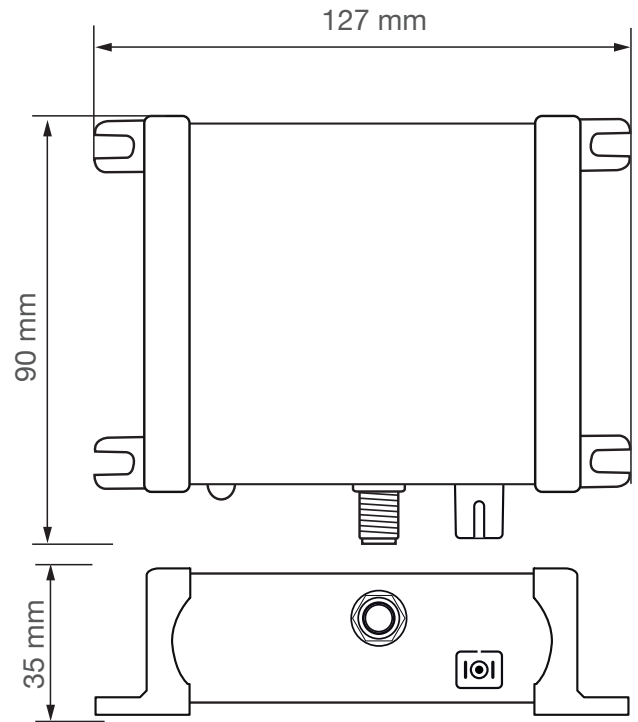


FCO-T

INSTALLATION MANUAL








- *1550nm optical filter*
- *Optical monitor Led*
- *A.G.C output levels*
- *Optical input sensitivity -14... 0 dBm*
- *Adjustable TV Terrestrial output level*
- *Supplied with power supply*



Ready for
UHD TV

WARRANTY **5** YEARS

MODEL		FCO-T
OPTICAL INPUT		1
RF OUTPUTS		1
OPTICAL		
FILTERS		1550nm OPTICAL FILTER
OPERATION WAVELENGTH	nm	1550
INPUT POWER RANGE	dBm	-14... 0
INPUT CONNECTOR TYPE		SC/APC
RETURN LOSS	dB	>40
TV TERRESTRIAL / FM / DAB		
OUTPUT BANDWIDTH	MHz	80... 790
OUTPUT LEVEL ADJUSTABLE RANGE	dB	0... -20
OUTPUT LEVEL	dBμV	105
OTHERS		
OUTPUT RETURN LOSS	dB	> 12
INPUT VOLTAGE	VDC	12... 20
MAXIMUM CONSUMPTION	W	3
OPERATING TEMPERATURE	°C	0... 50
DIMENSIONS	mm	127 x 90 x 35

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 vertical wall, or in a waterproof cabinet with a minimum IP55 rating, and fix it safely using the provided fixing plugs.
9. Do not install the unit lying flat or on its top.
10. Connect the power adapter cord to a detachable power supply socket.
11. Unplug the apparatus during lighting storms or when unused for long time.
12. Only use accessories specified by the manufacturer.
13. Do not remove the cover without disconnecting from the mains first.
14. Ambient temperature should not be lower than 0°C and higher than 50°C.
15. Please allow air circulation around the apparatus.



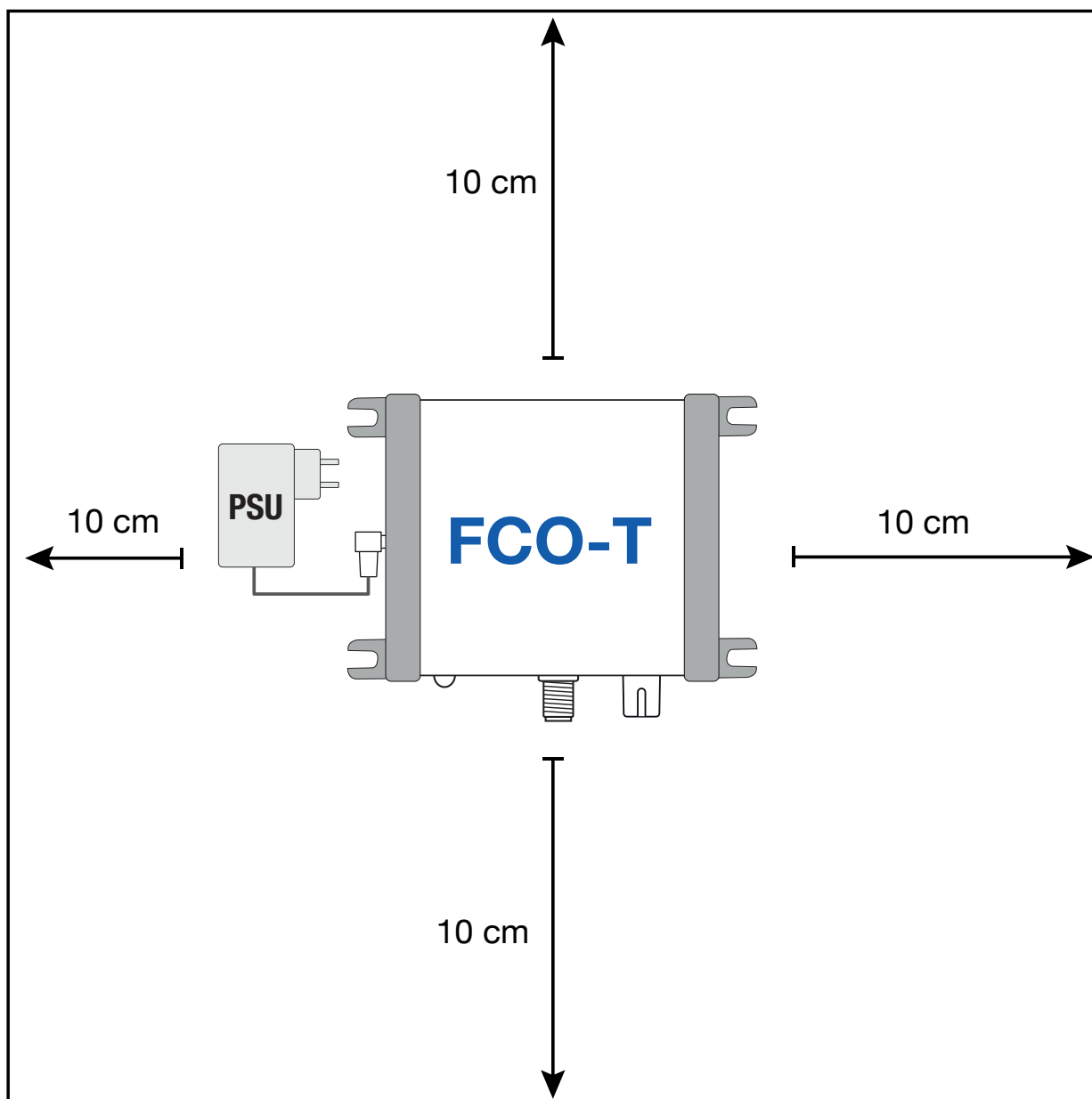
Installation warnings

**Place the apparatus and the power supplier in a dry and well-aired location.
Install the unit on a vertical wall, or in a waterproof cabinet with a minimum IP55 rating.**

Use only the power supplier provided.

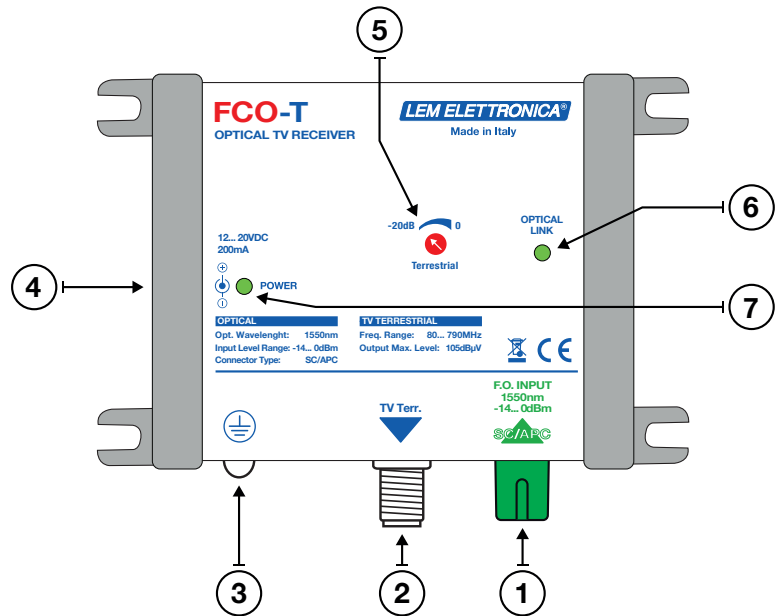
**The use of not-original power suppliers determines the not-compliance of the product
and can cause malfunctions and void the warranty.**

Recommended distance



FCO-T Description

- ① SC/APC Optical input
- ② TV Terrestrial output
- ③ Ground bonding
- ④ DC input
- ⑤ TV Terr. output level adjuster
- ⑥ Led status Laser
- ⑦ Power led



Optical signals higher than 0dBm can damage the **FCO-T** in PON with less than 4 optical points add at least a 7dBm optical attenuator.

MONITOR LED

DC Input

Off= No power

Green= Power

Optical Link

Off= No optical link

Green= Optical link

Terrestrial TV input adjustment

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

With 32 TV MUX inputs

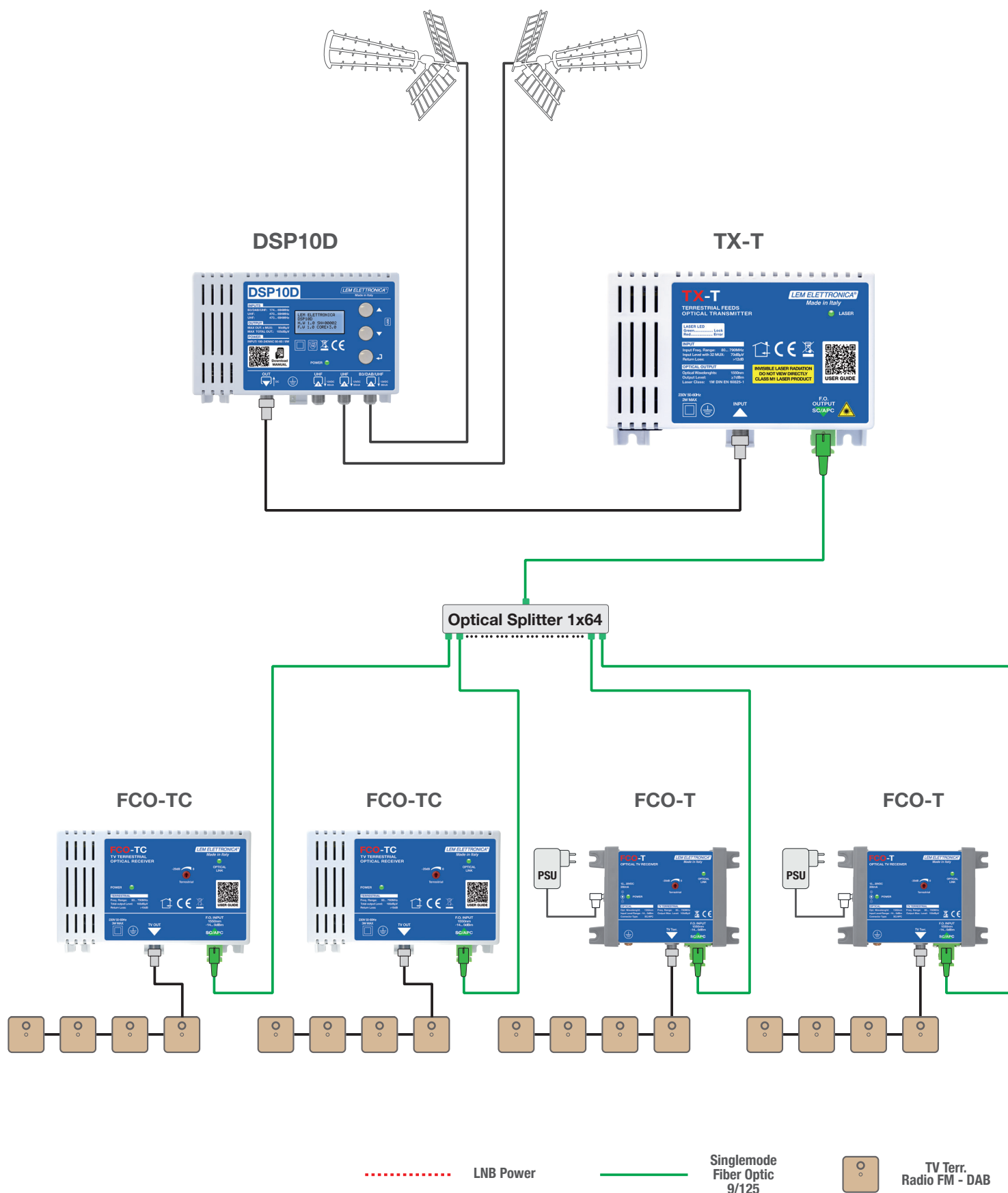
Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-T max. output level (single MUX)
4	- 7	70 dBµV	90 dBµV
8	- 10	73 dBµV	90 dBµV
16	-13,5	76 dBµV	90 dBµV
32	- 17	82 dBµV	90 dBµV
64	- 21	87 dBµV	86 dBµV

With 16 TV MUX inputs

Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-T 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 8 TV MUX inputs

Number or Optical points	Optical Attenuation	TX-T Transmitter terrestrial input level (single MUX)	FCO-T 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



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.	