

## Four-TETRA-Station Combiner

### DESCRIPTION

- The PRO-ISO-PHY-TETRA-S4 combiner provides the possibility of connecting up to four TETRA radios into one common antenna.
- The PRO-ISO-PHY-TETRA-S4 models are available in the frequency range 380 - 470 MHz (on request).
- All PRO-ISO-PHY units are designed for single carrier signal per port and thus it is not recommended to add a multiple carrier signal on the input ports, as this could potentially create unwanted intermodulation products transmitted on the antenna port and reflected on the input ports.
- ETSI compliant connection of four digital radios.
- The PRO-ISO-PHY-TETRA-S4 is the successor to the PRO-ISO-PHY-TETRA-4.
- The PRO-ISO-PHY-TETRA-S4 has improved isolation between the ports - more than 62 dB - and lower insertion loss.
- The use of high-quality system components such as highly selective helical duplex filters and high-performance isolators provides high isolation and secure communication.
- The smallest and most compact design on the market.
- Suitable for both stationary and mobile use.
- Also available in tray for 19" rack mounting.
- Vibration and shock tested in accordance with EN-60068\*\*.

\*\*Tested in accordance with:

**Vibration test:** EN 60068-2-64, test specification: EN 300 019-2-5 V3.0.0.

**Shock test:** EN 60068-2-27, test specification: EN 300 019-2-5 V3.0.0.

**Bump test:** EN 60068-2-29, test specification: EN 300 019-2-5 V3.0.0.



## SPECIFICATIONS

Electrical			
Model	PRO-ISO-PHY-TETRA-S4		
Frequency	Tx : 380 - 385 MHz Rx : 390 - 395 MHz	Tx : 410 - 415 MHz Rx : 420 - 425 MHz	Tx : 415 - 420 MHz Rx : 425 - 430 MHz
Type	TETRA combiner		
Max. Input Power	25 W per port		
Insertion Loss Tx-Ant.	< 9.0 dB		
Insertion Loss Rx-Ant.	< 9.0 dB		
Isolation TRx - TRx	Tx - Tx : > 60 dB Rx - Rx : > 60 dB Tx - Rx / Rx - Tx : > 60 dB		
VSWR	< 1.5:1		
Group Delay Variation	Tx-ANT. < 120 nsec. Rx-ANT. < 150 nsec.		
No. of channels	4		
Mechanical			
Connection(s)	N(f)		
Colour	Black		
Dimensions	150 (excl. conn.) x 250 x 35 mm / 5.91 (excl. conn.) x 9.84 x 1.38 in.		
Weight	Approx. 2.4 kg / 5.29 lb.		
Environmental			
Ingress Protection	IP62		

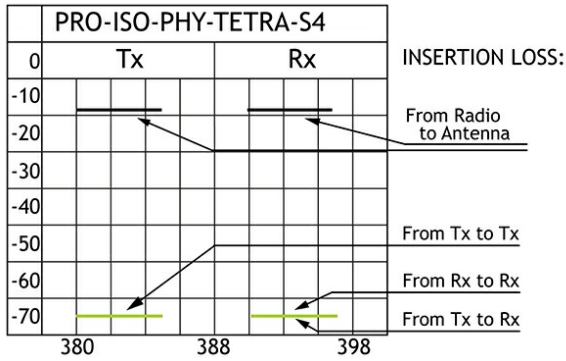
## ORDERING

Model	Product No.	Frequency
PRO-ISO-PHY-385/390-S4-N(f)	210002202	380 - 385 MHz / 390 - 395 MHz
PRO-ISO-PHY-415/420-S4-N(f)	210002203	410 - 415 MHz / 420 - 425 MHz
PRO-ISO-PHY-420/425-S4-N(f)	210002371	415 - 420 MHz / 425 - 430 MHz
Accessories		
19" Front plate with connectors in front *	210002204	
19" Front plate with connectors in back *	210002205	

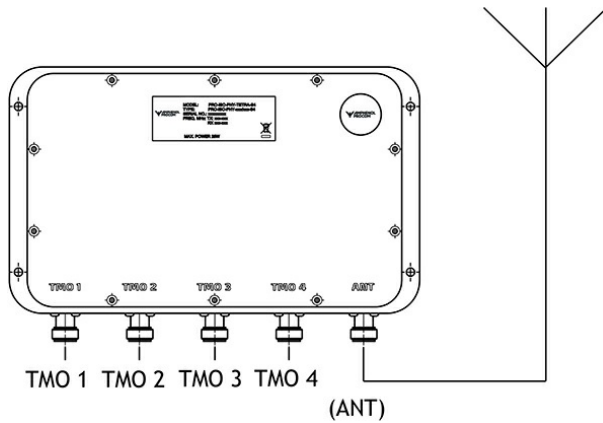
PLEASE NOTE

\* The frontplates are delivered in a separate packaging with extra screws for mounting on the combiner.

TYPICAL ATTENUATION VALUES



CONNECTION DIAGRAM



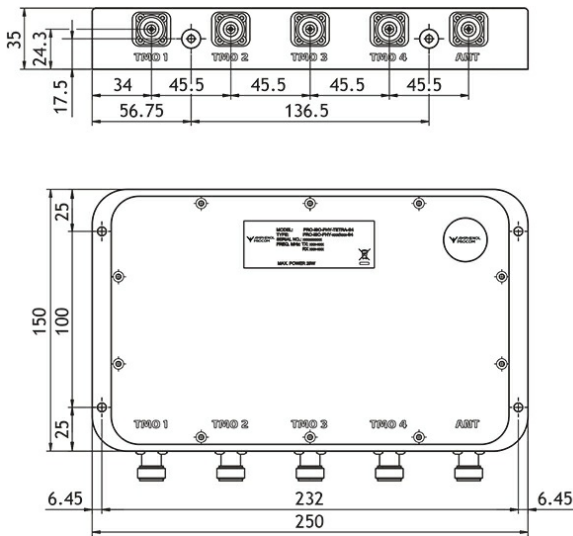
19" FRONT PLATE WITH CONNECTORS IN FRONT (210002204)



19" FRONT PLATE WITH CONNECTORS IN BACK (210002205)



MOUNTING DETAILS



All dimensions are given in mm [in.]

