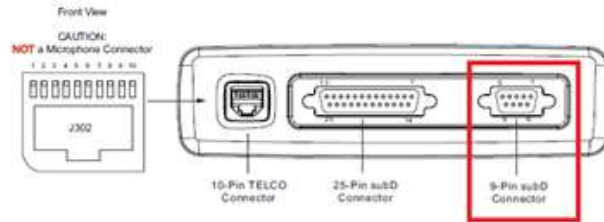


MTM5400 Data Box

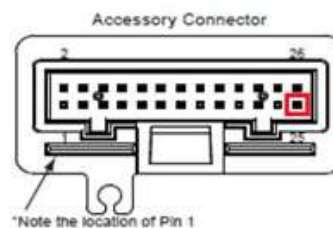
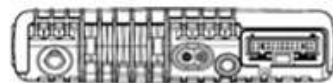
9-Pin subD Connector

The pin assignment of this 9-pin subD connector will follow the requirements of an RS232 standard interface with RS232 voltage level! The cable which has to be used is a standardized serial interface cable which allows to connect a data device with an RS232 Interface such as for example PC, Laptop, Console.



9-Pin subD Connector

Pin	Function	Description	PC Direction
1	DCD	Data Carrier Detect	Input
2	RXD	Received Data	Serial IN
3	TXD	Transmitted Data	Serial OUT
4	DTR	Data Terminal Ready	Output
5	GND	Ground	Output
6	DSR	Data Set Ready	Input
7	RTS	Request to Send	Output
8	CTS	Clear to Send	Input
9	RI	Ring Indicator	Input



Damit die MTM5400 Databox startet ist zwingend der Zündungsplus am Zubehöranschluss (Accessory Connector) PIN 25 anzuschließen.

Pin	Function	Description
25	IGNITION	Ignition input (through series 15K) – Pull > 5V to power on

Verbindungskabel MTM5400 Databox (RS232)

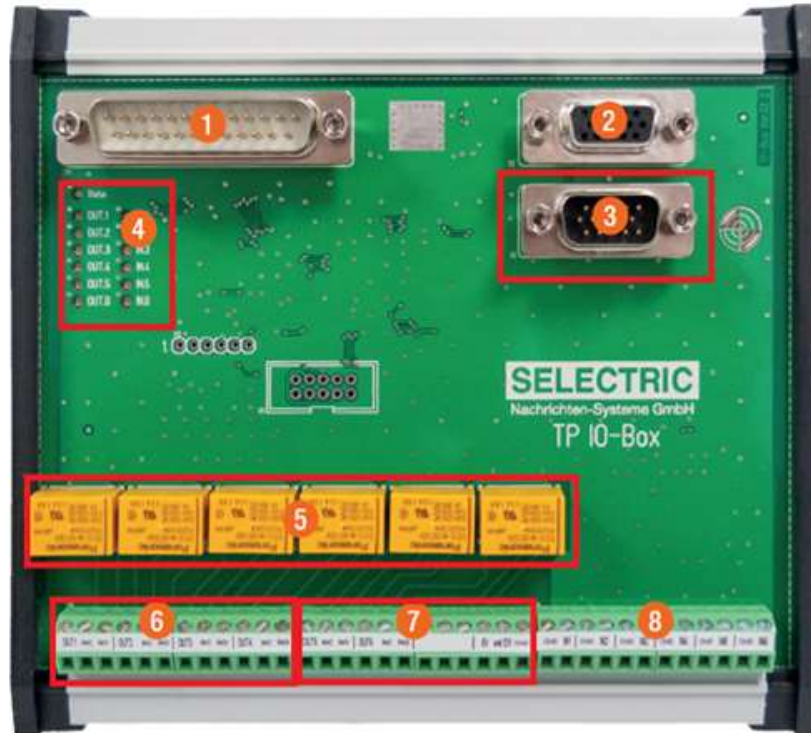


zu TP I/O-Platine (15 pol- D-SUB)



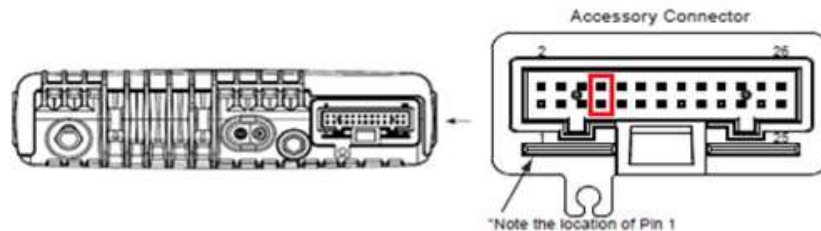
TP I/O-Platine

TMO_Repeater_Fernabschaltung_via_Digitalfunk



- 3 15-pol. D-Sub-Stecker zur Anbindung Motorola MTM5400 Databox
- 4 Status-LED (blau)
aus: Gerät ausgeschaltet
leuchtet blau: OK
1 s an - 2 s aus: Initialisierung
OUT 1-8 leuchtet: Ausgang geschaltet
IN-1-8 leuchtet: Signal liegt an
- 5 6 x Relais
- 6 6 x potentialfreie Ausgänge (max. 30 V AC/DC, bis max. 1 A)
- 7 Spannungsversorgung Anschluss ext. 12 V/GND und Spannungsabgriff 5 V

Die restlichen Anschlüsse sind für diesen Anwendungsfall irrelevant.



Die Spannungsversorgung der TP I/O-Platine erfolgt über den Zubehörsanschluss (Accessory Connector) der MTM5400 Databox: PIN 7+8.

Pin	Function	Description
7	SWB +	A+ voltage (limited to 14V) with 1A current limitation
8	GND_MAIN	Main and power ground

TETRA combiner with SWR adaption/adjustment network

DESCRIPTION

- Combiner for coupling of two TETRA mobile transceivers on one common antenna.
- Factory-adjusted to either 380 - 410 MHz or 400 - 430 MHz.
- Compact dimensions – especially suitable for mobile applications.
- FME-connectors for direct connection of FME-cable without extra adapter.
- For parallel operation of two two-way communication radios (transceivers) where highest possible decoupling (isolation) is necessary.
- Integrated SWR adjustment network for optimization of isolation in the frequency range of 380 - 410 MHz or 400 - 430 MHz. Via the adjustment network the effective SWR of the antenna can be optimized and consequently the isolation between the ports of the combiner clearly improved.
- High isolation obtainable: Up to 60 dB (Dependent on the SWR of the connected antenna).
- The adjustment of the SWR adjustment network takes place via built-in variable capacitors.
- Max. TETRA transmitter power 2 x 10 W.
- Also usable as equal power divider for max. 20 W.
- Very small ripple over the total frequency range.



SPECIFICATIONS

Electrical	
Model	PHY-TETRA-2-FME-...
Frequency	380 - 410 MHz or 400 - 430 MHz
Max. Input Power	20 W
Impedance	50 Ω
Nominal Divider Loss	3 dB
VSWR	< 1.3:1
No. of Channels	2 - 2

Mechanical	
Connection(s)	FME-connectors
Dimensions	50.5 x 66 (including bottom plate and connectors) x 19.5 mm / 1.99 x 2.59 (including bottom plate and connectors) x 0.77"
Weight	0.08 kg / 0.18 lb
Mounting	4 mm dia. (4 holes)

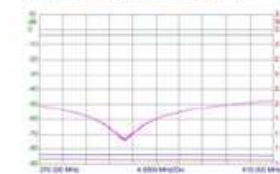
Environmental	
Operating Temperature Range	-30°C to +60°C

ORDERING

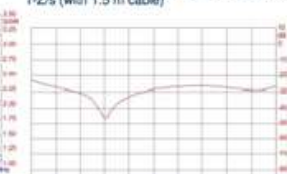
Model	Product No.
PHY-TETRA-2-FME-380-410	210001836
PHY-TETRA-2-FME-400-430	210001837

DIAGRAM

TYPICAL RESPONSE CURVE SWR 1



TYPICAL RESPONSE CURVE ANTENNA MU 1-Z's (with 1.5 m cable)



TYPICAL RESPONSE CURVE ANTENNA MUMOUNTING DETAILS 3-BZ/TETRA/I (with 1.5 m cable)

