



Model Number

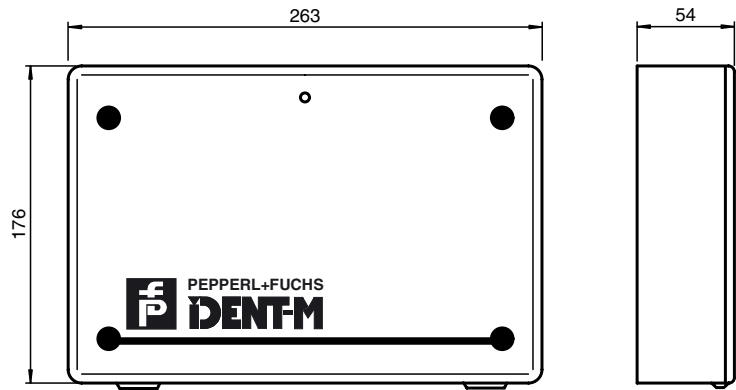
MTT-S1

Read/write device

Features

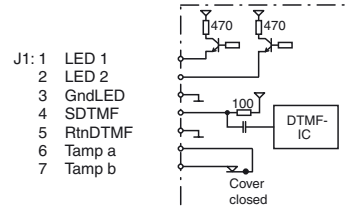
- Serial interfaces RS 232 and RS 485
- Dual-LED for function display
- Internal database
- Stand-alone functionality
- Inputs and outputs
- Motion recognition possible
- Multi-tag capability
- 100 frequency channels
- Internal control unit with push button switches, 7-segment displays and buzzer

Dimensions

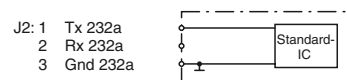


Electrical connection

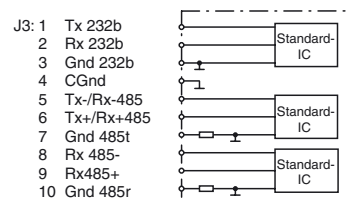
Interface Description:
DTMF, LED, external control input



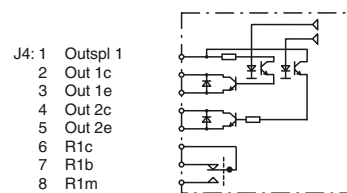
RS 232 for data station



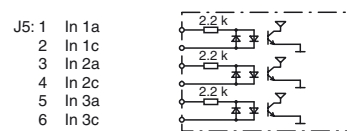
RS 232 / RS 485 for host processor



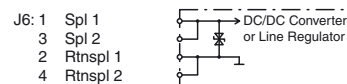
Parallel output and relays



Parallel input



DC supply



Technical data

General specifications

Operating frequency	2.435 ... 2.465 GHz , 100 ID-channels channel separation 300 kHz
Polarization	circular
Transfer rate	read: 4 kBit/s , 16 kBit/s write: 4 kBit/s
Acquisition range of the motion recognition	5 m for velocities between 0.3 and 9.2 m/s
Operating distance	maximum: 4 m

Memory

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Type/Size	flash EEPROM 3 x 128 kByte SRAM 128 kByte
Indicators/operating means	
LED green/yellow/red	controllable per software
Electrical specifications	
Rated operational voltage	U_e 20 ... 28 V DC selectable via Jumper 10 ... 14 V DC
Current consumption	at 24 V: 150 mA at 12 V: 500 mA
Interface 1	
Physical	RS 232
Protocol	ASCII
Transfer rate	≥ 1.2 ; ≤ 19.2 kBit/s standard setting: 9.6 kBit/s
Interface 2	
Physical	RS 232 or RS 485; for RS 485: full- (4-wire) or half-duplex (2-wire)
Protocol	ASCII
Transfer rate	≥ 1.2 ; ≤ 38.4 kBit/s default setting: 9.6 kBit/s
Input	
Optocoupler	3 inputs
Input level	ON: ≥ 2.4 V , max. 30 V OFF: ≥ 0 V , max. 0.2 V
Output	
Electronic	output 1: open-collector; 1 ... 30 V DC, max. 500 mA output 2: open-collector; 1 ... 30 V DC, max. 100 mA
Relay	switching current ≤ 2 A; $P_{max} = 50$ W switching voltage ≤ 220 V DC; 48 V AC
Ambient conditions	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Storage temperature	-20 ... 60 °C (253 ... 333 K)
Mechanical specifications	
Protection degree	IP43 according to EN 60529
Material	front: polycarbonate back face: high grade steel
Mass	1.9 kg
Dimensions	263 mm x 176 mm x 54 mm (W x H x D)
Compliance with standards and directives	
Directive conformity	
R&TTE Directive 1995/5/EC	EN 60950, IEC 60215, ETS 300683, ETS 300440

Function

The read/write device establishes the connection between the code and/or data carriers of the Ident-M System T and a higher-order computer (industrial-PC, PLC, etc.). Communication with the computer occurs via an RS 232 or RS 485 (2- or 4-wire) serial interface.

The system is multi-tag capable, i.e. multiple code or data carriers are identified in the acquisition range. The write/read devices can be set to 100 different frequency channels, thereby preventing mutual interference.

The devices can also be used in stand-alone operation through various inputs and outputs.

An LED as well as a buzzer integrated in the device indicate the operating status.

The device can be adjusted and tested via an internal control panel with two push button switches and two 7-segment displays. The device is delivered ex works with the 'Confitalk' protocol software. Defined in this protocol are a wide range of commands which allow the user to perform simple communication operations between the higher-order computer and the read/write device.

Additional information can be found in the descriptions of the system and device.

Software

Communication with the identification system is very easy with the demo program IDENT 2005. It shows the system options and simplifies commissioning.

The demo program is included in the scope of delivery.

Notes

MTT Internal View

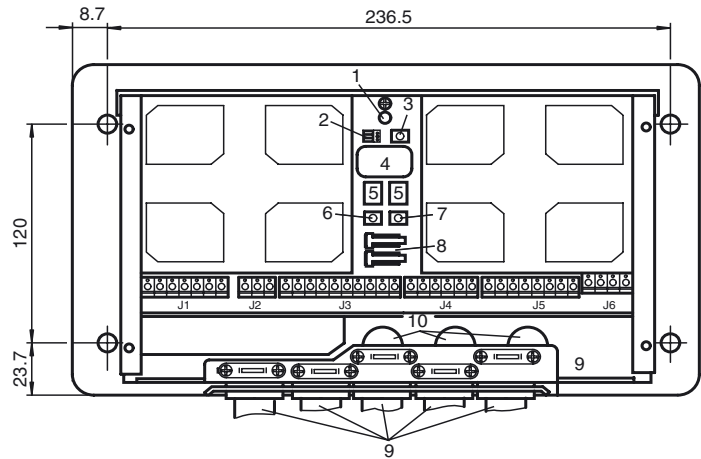
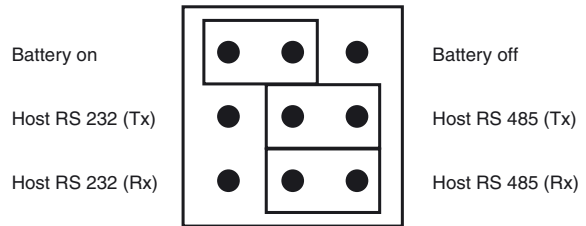


Illustration of MTT-S1 Hardware Features:

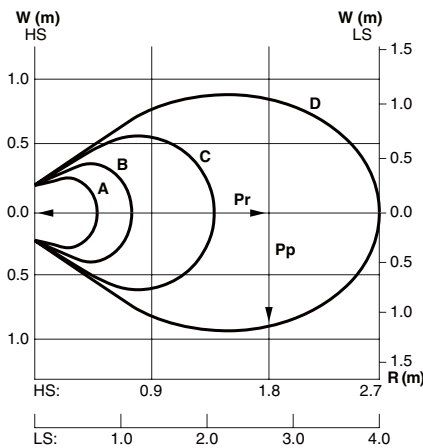
- | | |
|---------------------|-----------------------------------|
| 1 Multicoloured LED | 6 "Parameter-selection" button |
| 2 Jumper field | 7 "Value-selection" button |
| 3 RESET-button | 8 Monitor contact for the cover |
| 4 Buzzer | 9 Cable connection access, bottom |
| 5 Display | 10 Cable connection access, back |

Jumper settings



Microwave field shape

- HS Reading speed (16 kBit/s)
- LS Reading speed (4 kBit/s)
- W(m) Wave width
- Pr Transfer range (70 % of R_{max})
- Pp Data transfer range (70 % of R_{max})
- R (m) Range



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