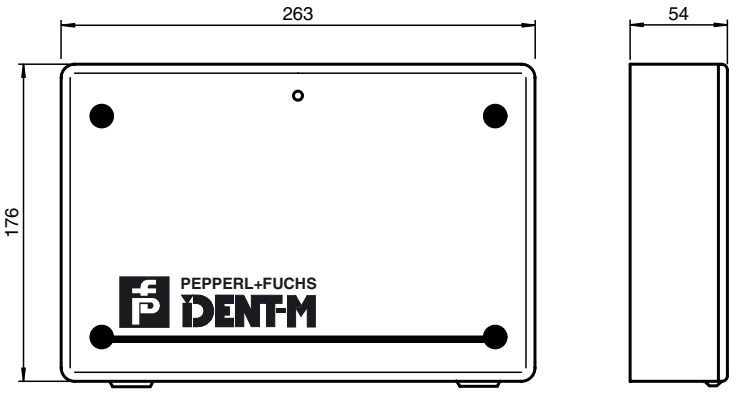
Dimensions



Model number

MTT-S2

Features

- Serial interfaces RS 232 and RS 485
- LEDs as function indicators
- Inputs and outputs
- Motion recognition possible
- Multi-day capability
- 100 frequency channels

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 RS232 or RS485 (2-wire) serial interface.
The system is multitag capable, i.e. several code or data carriers are identified within the sensing range. The write/read devices can be set to 100 different frequency channels, thereby preventing mutual interference.
An LED indicates the operating status. The device can be adjusted and tested via an internal control panel with two push button switches.
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 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.

Technical data

General specifications		
Operating frequency		2.435 ... 2.465 GHz , 100 ID-channels channel separation 300 kHz
Transfer rate		read: 4 kBit/s , 16 kBit/s write: 4 kBit/s
Distance		distance tables, see introduction
Memory		
Type/Size		flash EEPROM 128 kByte SRAM 128 kByte
Electrical specifications		
Rated operational voltage	U_e	10 ... 14 V DC
Current consumption		at 12 V: 500 mA
Interface 1		
Physical		RS 232
Protocol		ASCII
Interface 2		
Protocol		ASCII
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

IDENT-M System T

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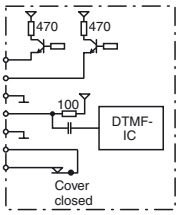
Electrical connection

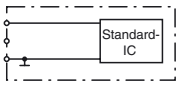
Interface Description:
DTMF, LED, external control input

J1: 1 LED 1
2 LED 2
3 GndLED
4 SDTMF
5 RtnDTMF
6 Tamp a
7 Tamp b



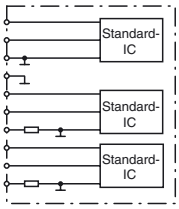
RS 232 for data station

J2: 1 Tx 232a
2 Rx 232a
3 Gnd 232a



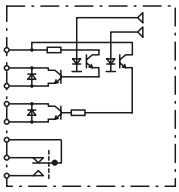
RS 232 / RS 485 for host processor

J3: 1 Tx 232b
2 Rx 232b
3 Gnd 232b
4 CGnd
5 Tx-/Rx-485
6 Tx+/Rx+485
7 Gnd 485t
8 Rx 485-
9 Rx485+
10 Gnd 485r



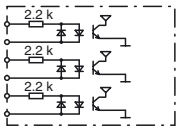
Parallel output and relays

J4: 1 Outspl 1
2 Out 1c
3 Out 1e
4 Out 2c
5 Out 2e
6 R1c
7 R1b
8 R1m



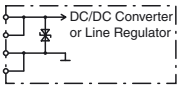
Parallel input

J5: 1 In 1a
2 In 1c
3 In 2a
4 In 2c
5 In 3a
6 In 3c



DC supply

J6: 1 Spl 1
3 Spl 2
2 Rtnspl 1
4 Rtnspl 2



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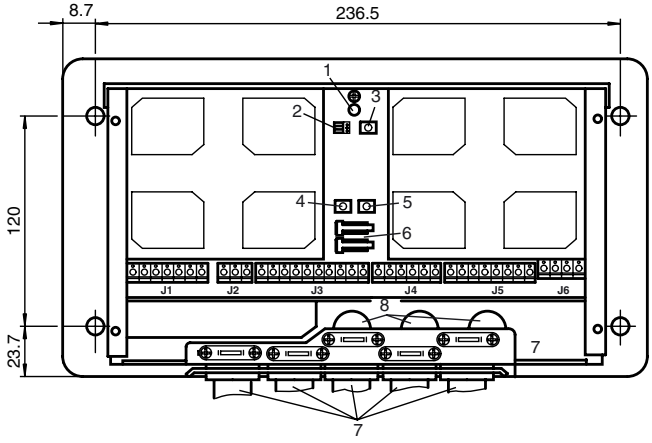
Notes

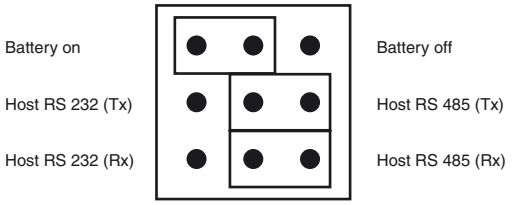
MTT-S2 Interior view



Explanations for the service panel:

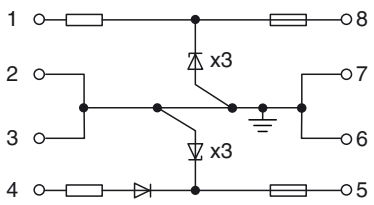
1 Multicolor LED
2 Jumper field
3 RESET button
4 "Parameter selection" button
5 "Value selection" button
6 Monitoring contact for the cover plate
7 Cable bushings below
8 Cable bushings rear

Jumper settings



Lobe shape of the microwave

HS Reading speed (16 kbit/s)
LS Reading speed (4 kbit/s)
W(m) Width of "lobe"
Pr Transmission range (here at 70% of R_{max})
Pp Area for the data transmission (here at 70% of R_{max})
R(m) Reach



All diodes are turned 180˚
for the -VE version.

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