$C\epsilon$

Dimensions

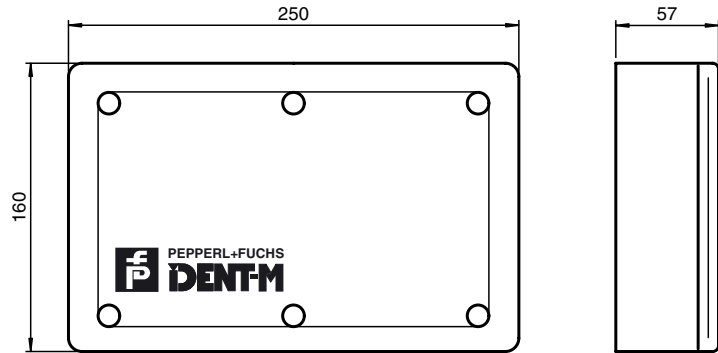## Model number

MTT-F52-S3

Features

- Serial interfaces RS 232 and RS 485
- Dual-LED for function display
- Stand-alone functionality
- Inputs and outputs
- Motion recognition possible
- Multi-day capability
- 100 frequency channels
- Internal control unit with push button switches, 7-segment displays and buzzer
- Protection degree IP65

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
Operating distance	maximum: 6 m

Memory

Type/Size	flash EEPROM 3 x 128 kByte SRAM 128 kByte

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

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	IP65 according to EN 60529
Material	front: ABS rear: ABS
Mass	1.7 kg
Dimensions	250 mm x 160 mm x 57 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

System T

IDENT-M

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
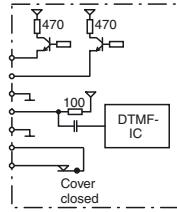
RS 232 for data station

J2: 1	Tx 232a
2	Rx 232a
3	Gnd 232a
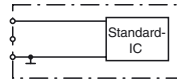
RS 232 / RS 485 for host processor

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
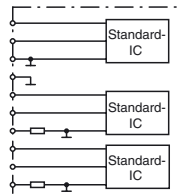
Parallel output and relays

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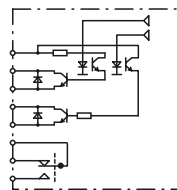
Parallel input

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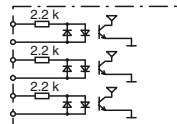
DC supply

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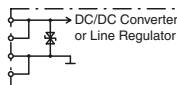
Function

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 multitag capable, i.e. several code or data carriers are identified within the sensing range. The read/write 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. It is also possible to perform the parameterisation via a so-called setup tag.

The device is delivered ex works with the "P+F-Talk" protocol software. Defined in this Pepperl+Fuchs 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.

The device has a special housing with PG cable glands, whereby protection degree IP65 is reached.

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.

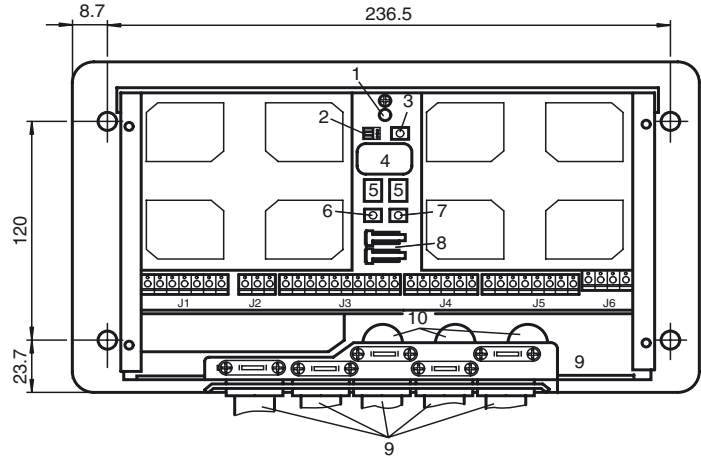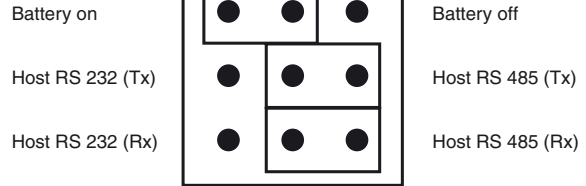The demo program is included in the scope of delivery.

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Notes

MTT Internal View

Illustration of MTT-S1 Hardware Features:

1   Multicoloured LED
2   Jumper field
3   RESET-button
4   Buzzer
5   Display

6   "Parameter-selection" button
7   "Value-selection" button
8   Monitor contact for the cover
9   Cable connection access, bottom
10 Cable connection access, back

Jumper settings

Battery on   Battery off

Host RS 232 (Tx)   Host RS 485 (Tx)

Host RS 232 (Rx)   Host RS 485 (Rx)

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