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Model Number

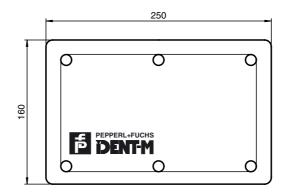
MTT-F52-S1

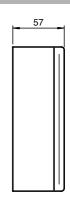
Read/write device

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
- Protection degree IP65

Dimensions



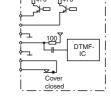


Electrical connection

Interface Description: DTMF, LED, external control input

Parallel output and relays

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



Standard IC

Standard

IC

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RS 232 for data station Tx 232a Rx 232a

Gnd 232a RS 232 / RS 485 for host processor

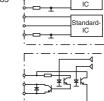
J3: 1 Tx 232b Rx 232b 3 4 Gnd 232b

CGnd Tx-/Rx-485 Gnd 485t

Outspl 1

Out 1c

Tx+/Rx+485 Rx 485-Rx485+ 10 Gnd 485r



3 Out 1e Out 2c 5 6 7 Out 2e R1c R1b R1m Parallel input J5: 1

2 In 1c In 2a In 2c 6 In 3c

J6: 1 Spl 1 Spl 2 2 Rtnspl 1 Rtnspl 2

J4: 1

DC supply

Technical data

General specifications

Operating frequency 2.435 ... 2.465 GHz , 100 ID-channels channel separation 300 kHz

Polarization

read: 4 kBit/s , 16 kBit/s Transfer rate write: 4 kBit/s

Acquisition range of the motion recogni-5 m for velocities between 0.3 and 9.2 m/s

Operating distance maximum: 4 m

Memory

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 \leq 2 A; $P_{max} = 50 \text{ W}$ switching voltage \leq 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	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

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 write/read devices can be set to 100 different frequency channels, thereby preventing mutual interference.

Due to their internal data base as well as different inputs and outputs, the devices can also be used in stand-alone operation.

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.

The device has a special housing with PG cable glands, whereby protection degree IP 65 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.

Notes

MTT Internal View

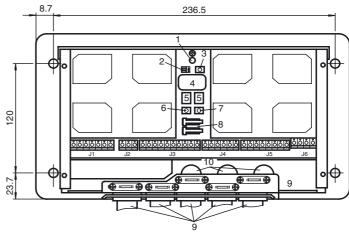
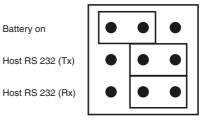


Illustration of MTT-S1 Hardware Features:

- 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 off

Host RS 485 (Tx)

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

