



## 7 Man - machine interface



### 2 Message display

#### 1 TA125 series

The field text display TA125 indicates arbitrary messages, warnings or hints in the hazardous area zone 1. It's large (58 x 244 mm), reflective display with a figure height of 15 mm can easily be read up to a distance of five meters. The display is organised into 4 rows with 40 characters per each row. The TA125 receives the messages for instance from a PC or DCS located in safe area.

The interface TI125 serves as intrinsically safe barrier and power supply. It can be equipped with several bus modules (RS232, RS485, RS422, Profibus DP, Interbus and Modbus). The distance to the TA125 could be up to 300 meters with a data rate of 38,4 kbit/s. Use bigger wire diameter for longer distances. It is possible to connect many text display to one bus (theoretical up to 256). Each one with a different text content. Additionally the TA125 has an intrinsically safe passive alarm output. With this it is possible to connect a further alarming device. With the three digital inputs you can acknowledge a message or an alarm or you can request further information on the spot in hazardous area.

The TA125 stores up to 32 kByte of messages in a internal EEPROM. You can program the prestored messages with the bundled windows software 'TEXT LINK'.

There are two ways to display the prestored texts: the serial interface or applying a defined bit pattern to binary address inputs of the TI125 (option).

II 2 G Ex ib IIC T6 Gb (TA125)

II 2 D Ex t IIIC T70°C Db IP65 (TA125)

II (2) G [Exib] IIC (Gb) (TI125)

Zone 0	✗	Zone 20	✗
Zone 1	✓	Zone 21	✓
Zone 2	✓	Zone 22	✓



#### Specifications

##### TA125

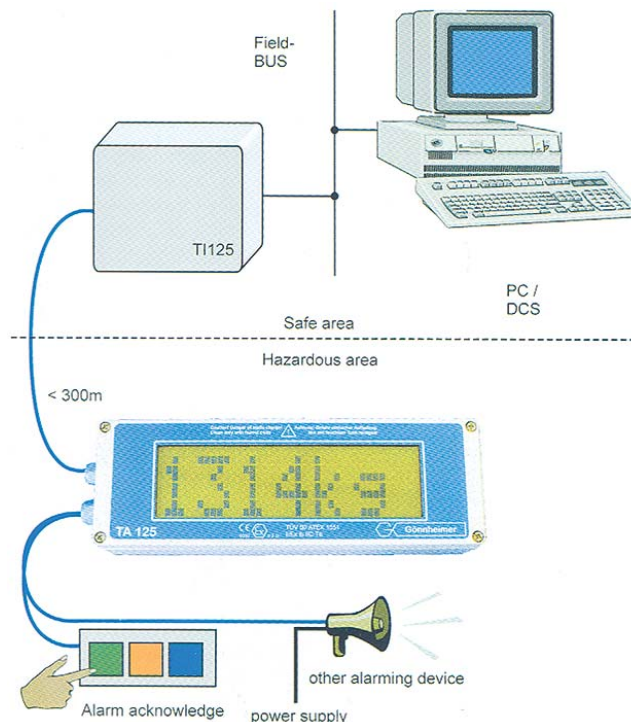
Protection	IP65
Material	aluminium, lacquered 7035
Mounting	zone 1
EX-limits	<ul style="list-style-type: none"> <li>digital output: <math>U_i=30V</math>, <math>I_i=160mA</math>, <math>P_i=0,85W</math></li> <li>digital input: <math>U_o=6V</math>, <math>I_o=1mA</math></li> </ul>
Transmission speed	up to 38,4 kbits/s
Connection to TI125	2 x 2 x 0,25 mm <sup>2</sup> (or bigger diameter)
Ambiant temperature	-20°C - +45/65°C

##### TI125

Protection	IP40
Material	aluminium
Mounting	safe area
Mounting	35 mm rail acc. DIN EN 50022
Ambiant temperature	-20°C - +60°C

#### On request

- On demand the number of digital intrinsically safe inputs can expand up to 12. (connection of a keyboard)



## 7 Man - machine interface

### 2 Message display

#### 1 TA125 series

#### Ordering data

Code	Description	Protection	Interface module	Option binary address input	Voltage	Character height	Text display	Viewing area
TA125	display	IP65				15 mm	4 x 40 characters	68 x 244 mm
TI125.0.0.0	interface	IP40	RS485/RS232/RS422	without	230VAC			
TI125.0.0.1	interface	IP40	RS485/RS232/RS422	present	230VAC			
TI125.0.1.0	interface	IP40	Modbus	without	230VAC			
TI125.0.1.1	interface	IP40	Modbus	present	230VAC			
TI125.0.2.0	interface	IP40	Profibus DP	without	230VAC			
TI125.0.2.1	interface	IP40	Profibus DP	present	230VAC			
TI125.3.0.0	interface	IP40	RS485/RS232/RS422	without	110VAC			
TI125.3.0.1	interface	IP40	RS485/RS232/RS422	present	110VAC			
TI125.3.1.0	interface	IP40	Modbus	without	110VAC			
TI125.3.1.1	interface	IP40	Modbus	present	110VAC			
TI125.3.2.0	interface	IP40	Profibus DP	without	110VAC			
TI125.3.2.1	interface	IP40	Profibus DP	present	110VAC			
TI125.6.0.0	interface	IP40	RS485/RS232/RS422	without	24VDC			
TI125.6.0.1	interface	IP40	RS485/RS232/RS422	present	24VDC			
TI125.6.1.0	interface	IP40	Modbus	without	24VDC			
TI125.6.1.1	interface	IP40	Modbus	present	24VDC			
TI125.6.2.0	interface	IP40	Profibus DP	without	24VDC			
TI125.6.2.1	interface	IP40	Profibus DP	present	24VDC			

#### Dimensional sketches

