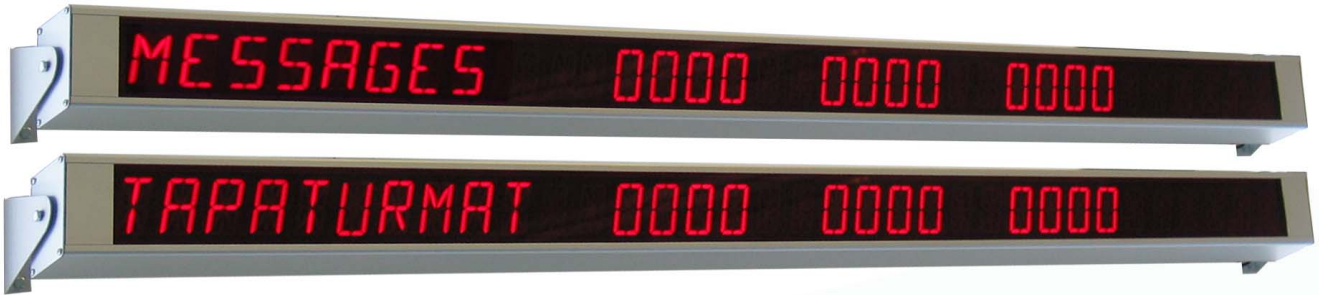


Information display 580



- Character height 57 mm, bright red LED
- For clear text information 10 - 34 characters
- For serial bus RS-485 or RS-232
- Selectable address 0...31

- Even 32 units into same serial bus
- For clear text information
- Power 230 VAC

Information display 580 is designed to show various information e.g. in industrial plants: process values, measuring results, quantities, blink alarm indication etc. Bright red LED display can show characters A..Z and numbers 0..9 up to 30 meters. Information can be sent from Proces computer, PC or from logic. Serial communication is easy to use as shown below. Unit is programmed simply by selecting serial address and baud rate.

RS-485 is versatile and reliable serial bus. 32 units can be connected to same bus (address 0..31). Maximum bus distance is 1000 m.

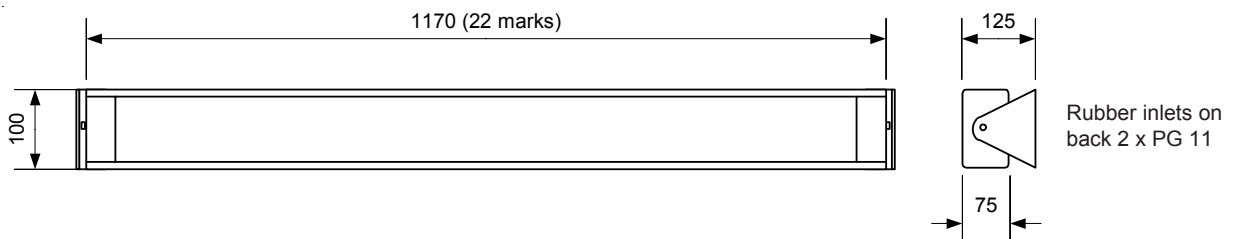
RS232 accepts only one unit and max distance from the controlling device is 20 m (depends on baud rate and enviroments interference).

Technical specifications:

Display:	Characters A..Z and numbers 0..9
Number of char:	min 6, max 32 chanracters
Display height:	57 mm 16 segment bright red LED
Power:	230 VAC in a separate housing
Power demand:	15 - 60 W
Dimensions:	Depends on number of charachters See next page
Case:	Grey anodized aluminium
Mounting direction:	Freely turnable

Order code 580-12ALF-230VAC
Number of char _____

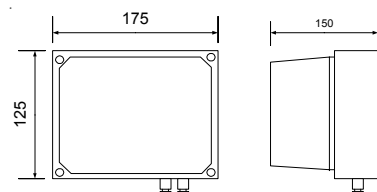
Case dimensions



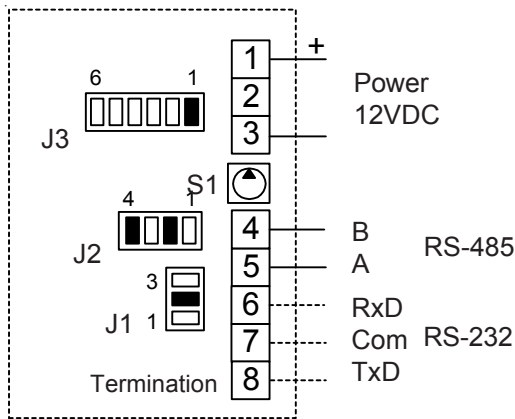
Case protection: IP44
Case material: Aluminium, light gray
Front plate: red plastic (perspex)
Inlets: (2 x 11) on right rear end

Shown display for 22 character display
Min. characters =10, length 480 mm,
next two characters = +96 mm,

Enclosure for power supply



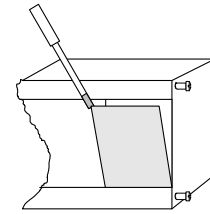
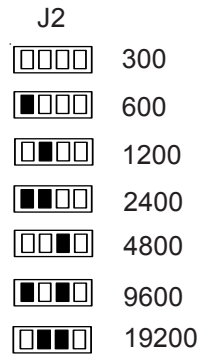
Connection and settings:



J1 Termination ON/OFF
 J2 Baud rate selection
 J3 Check sum On/OFF
 S1 Display address 0-15

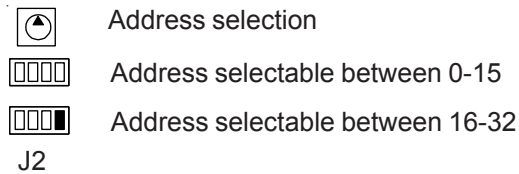
Off = no short cut
 On = short cut installed

Baudrate



Open terminal shield on front of the case

Address selection with switch S1 and with short cut jumpers J2



Serial Protocol

Port settings

Baud rate: 300, 600, 1200, 4800, 9600, 19200
 1 start, 8 Data and 1 Stop bit, No Parity

Communication language

Communication between units is held by messages. There are two types of messages: Command and response messages.

Command messages:

Command string to be sent to unit:
 <id><Command string><ETX><BCC>.
 Time between command string characters cannot be longer than 0,5 s. Command string for information display is **DISP data**. Data is ASCII-string.
 e.g. Desired information is: RESULT = 100%
 Command string is: **DISP**RESULT=100%

Response message:

Unit answers to command string with response message:
 <ACK><ETX><BCC>, no errors
 or <NAK><ERR><ETX><BCC>, error detected

Definitions

<id> Receiving unit address + 80h
 e.g. device address is 10, the <id> is 10 + 80h = 8Ah.
 <ETX> End mark 03h.
 <BCC> Checksum: Byte formed with XOR from command string bytes and end mark ETX.
 <ACK> 06h.
 <NAK> 15h.
 <ERR> Error number:
1: Timeout
 Data transmission fail.
2: BCC Timeout
 Checksum not received.
3: BCC Error. Formed and received checksum doesn't match.
4: Command Error.
 Device cannot recognize used command.

Character sending order

Characters are to be sent in specific order. Start with upper left character and in two row unit 582 send upper row first.