

# ProfiNET



100 mm high characters. Industrial environment  
Readable up to 50m  
1 or 2 displaying sides

## Characteristics

- Message display (text, numbers & symbols) designed to be used in industrial environment.
- Real time clock: Seconds / Minutes / Hours / Days / Month / Year. It is adjustable by two push buttons or by ProfiNET. The clock has NiMH battery backup, which lasts approximately one month.
- The Display can be mounted with connectors upwards or downwards, text orientation will adapt using "spin" function
- ProfiNET RT class1 v2.3. Double Ethernet port with electric isolation & doubled address automatic detection.
- GSD file provided.
- Luminous intensity adjustable in 8 steps, from push buttons or by Profinet.
- Long messages can be displayed using the cyclic rotation scroll function (speed can be adjusted)
- Option: Humidity and temperature sensor

## Applications

Display of any message from a PLC or ProfiNET network: Alarms, counting, production rates, alphanumeric readouts...

## Edition & Configuration

### Editing and saving messages on the display.

Message editing is done through the TDLWin application that allows to transfer them to the non-volatile internal memory. In applications where all messages are received by Profinet, it is only necessary to record the message by default, which is the one that is displayed from the start up until the first message is received

### Configuration

The display is defined with default Profinet parameters and the GSD file is distributed.

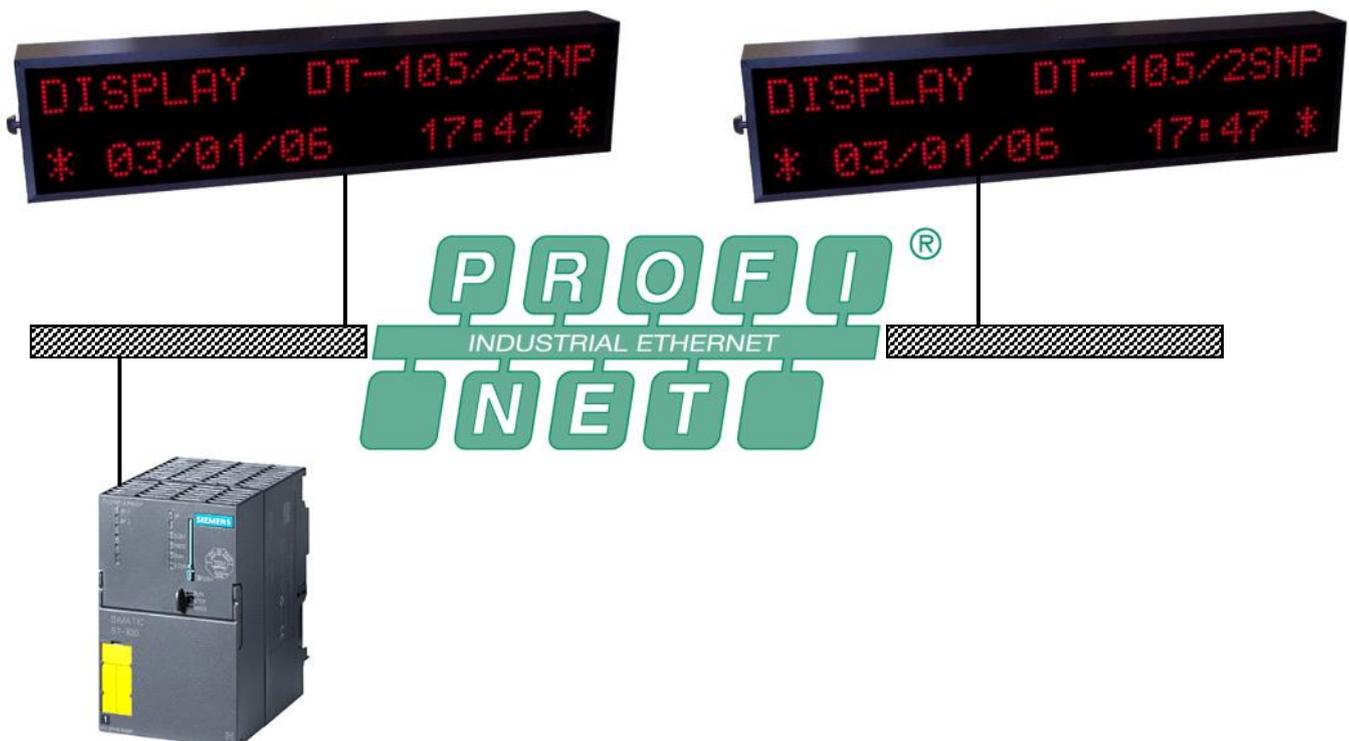
If those parameters are to be changed it is available an application that allows to program the display off line to the new configuration and auto generate the new GSD file to be able to use engineering tools such as TIA Portal

## Working

The DT-NN displays have two operating modes: /

- Control by code. Messages with a reference numeric identifier are defined and transferred to the internal memory. The messages are displayed by sending the associated numerical identifier from the control device.
- Direct control. The entire message and its control codes are sent directly by Profinet.
- Before to transmit the first block you must check the display parameters: See manual for details.

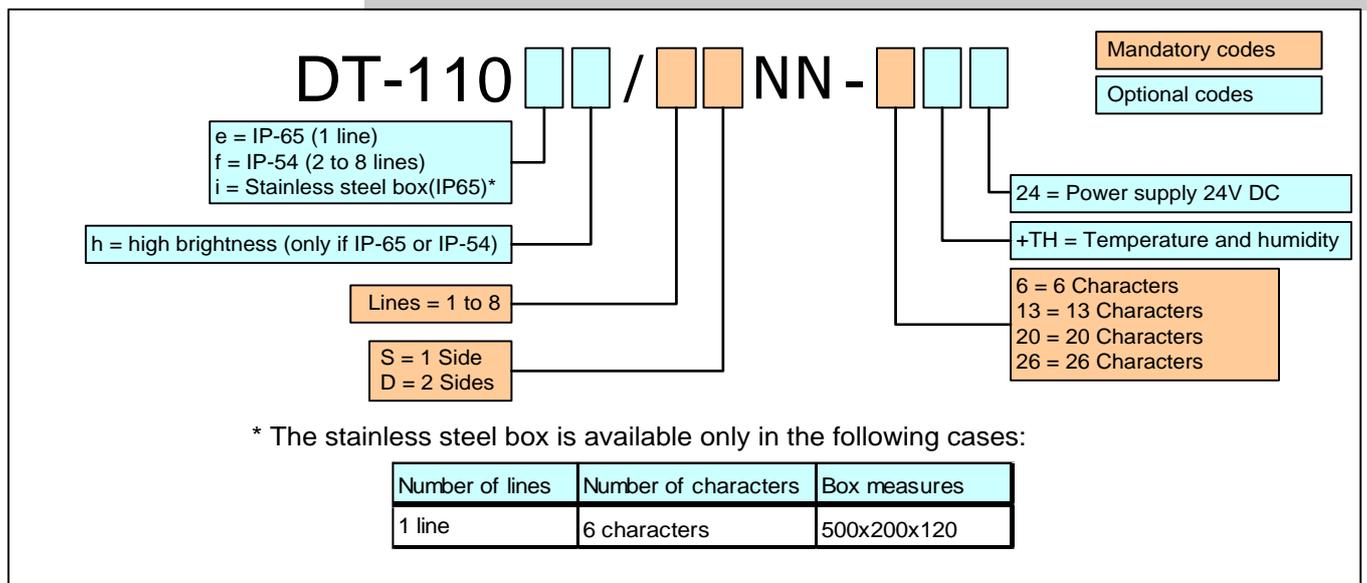
## Example



## General characteristics

Number of sides	1 or 2			
Communication	ProfiNET RT Class 1 V2.3			
Connector	ProfiNET (Double)			
Number of lines	1 to 8 lines			
Character/line	6, 13, 20 or 26 characters			
Display matrix	LED, 5 x 7 dot matrix			
Character height	100mm			
Reading distance	50 meters			
Maximum environmental lighting	DT110 = 1000 lux. DT110h = Outdoor			
Power supply	100 to 264 VAC 47 to 63Hz. (Option 24V DC)			
	Dimensions (mm)			
	6 characters	13 characters	20 characters	26 characters
1 line	666 x 177 x 120	1276 x 177 x 120	1886 x 177 x 120	2496 x 177 x 120
2 lines	666 x 378 x 120	1276 x 378 x 120	1886 x 378 x 120	2496 x 378 x 120
3 lines	666 x 591 x 120	1276 x 591 x 120	1886 x 591 x 120	2496 x 591 x 120
4 lines	666 x 805 x 120	1276 x 805 x 120	1886 x 805 x 120	Not available
5 lines	666 x 1018 x 120	1276 x 1018 x 120	1886 x 1018 x 120	Not available
6 lines	666 x 1232 x 120	1276 x 1232 x 120	1886 x 1232 x 120	Not available
7 lines	666 x 1445 x 120	1276 x 1445 x 120	Not available	Not available
8 lines	666 x 1659 x 120	1276 x 1659 x 120	Not available	Not available
Protection degree	DT110 = IP41 DT110f = IP54 DT110e = IP65			
Max. number of messages	512 messages			
Max. Length of the message	160 characters			
Messages memory	EEPROM 32kB			
Case/display	Aluminium section in black. Display in extruded antireflex methacrilate			
Humidity + temperature accuracy	Temperature $\pm 0,5^{\circ}\text{C}$ at $25^{\circ}\text{C}$ . Humidity $\pm 3,5\%$ between 30% and 70%.			
Operation temperature	From $-20^{\circ}\text{C}$ to $60^{\circ}\text{C}$			
Stock temperature	From $-30^{\circ}\text{C}$ to $70^{\circ}\text{C}$			

## Reference composition



Example:

DT110/4DNN26TH

DT110 Display 4 lines 26 characters double side option temperature & humidity