# Digital Inputs


**50 mm high digits. Industrial environment**
**Readable from up to 25m**
**1 or 2 displaying sides.**

## Characteristics

Message display designed to be used in industrial environment.

Real time clock: Seconds / Minutes / Hours / Days / Month / Year. It is adjustable by two push buttons. The clock is NiMH battery backup, which lasts approximately one month.

Option: Relative humidity and temperature sensor.

## Applications

To display any data from a PLC: Temperature, engine RPM, alarm messages.
It can be connected to typical PLC relay or transistor outputs.

## Message edition

**Editing and saving messages on the display.**
Messages are edited by PC with the TDLWin software. TDLWin may be downloaded from our web.

**Recording messages.**
Messages edited by PC are sent to display by serial line and the remain saved in a Eeprom memory. Batteries are not needed for message maintenance.

## Operation

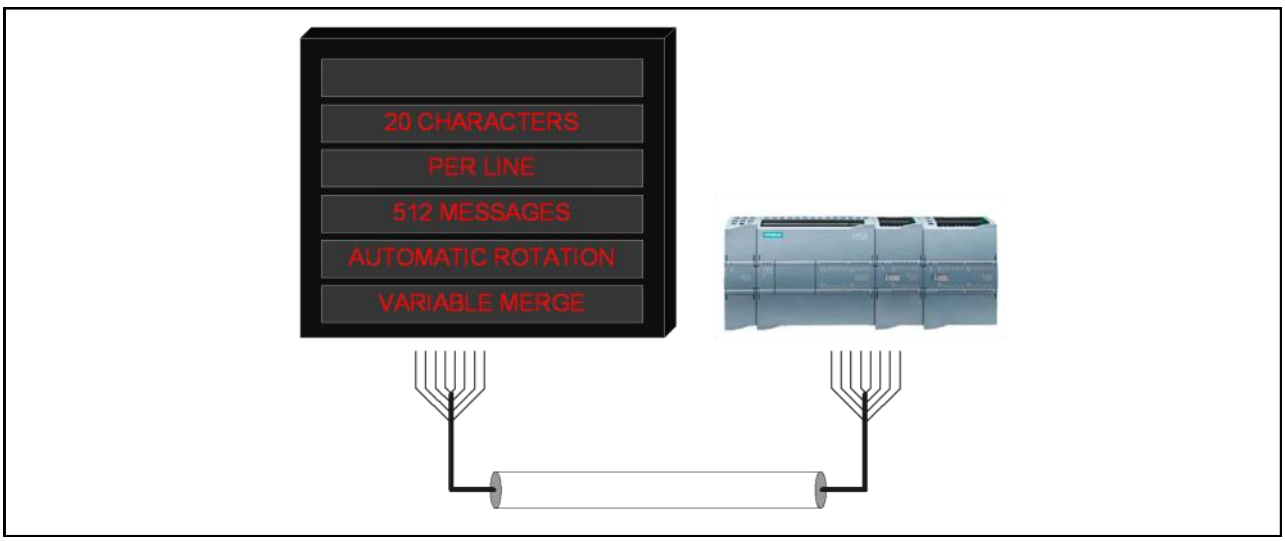
**Message control**
DT-P are run by PLC, with conventional digital outputs of any kind, NPN, PNP or contacts.

**Protocol 512-M:**
There are three different functions:
·Displaying a single message.
·Displaying all the linked messages in autonomous working order.
·Displaying multiple messages in memory.
The message are controlled by 14 inputs.
Each message needs a binary code. To control 512 messages
9 bits are needed.

**Protocol 14M-1:**
Each one of 14 inputs has a message associated. If more than one input is on all the linked messages are displayed.

**Protocol 14M-2:**
Each one of 14 inputs has a message associated. If more than one input is on only the less significant message is displayed.

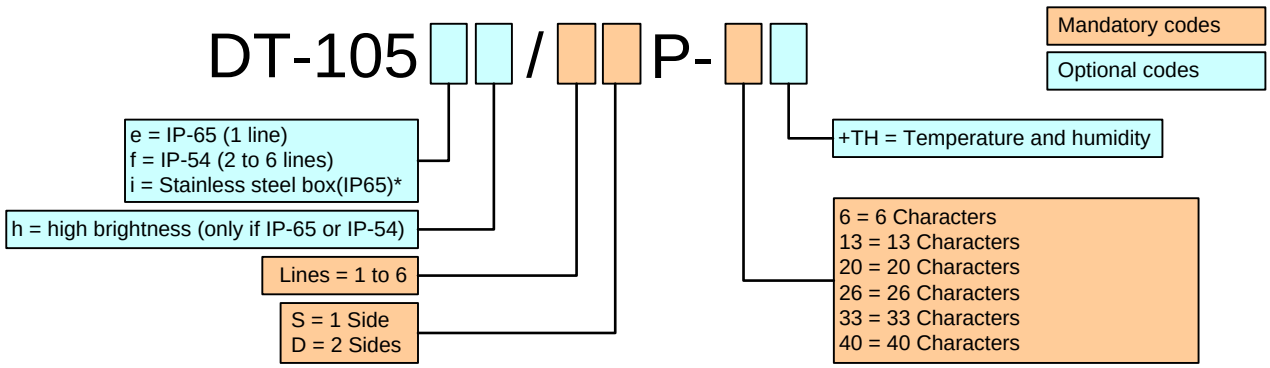
**Variables.**
With Protocol 512-M not only display texts, but also variables values. To work with variables it is necessary to use transistor PLC outputs.
This protocol let insert from one variable of 16 characters to 16 variables of one character into each line of a message.



## General characteristics

| | | | | | | |
|---|---|---|---|---|---|---|
| Number of sides | 1 o 2 | | | | | |
| Number of lines | 1 to 6 lines | | | | | |
| Character/line | 6, 13, 20, 26, 33 or 40 characters | | | | | |
| Display matrix | LED, 5 x 7 dot matrix | | | | | |
| Character height | 50mm | | | | | |
| Reading distance | 25 meters | | | | | |
| Maximum environmental lighting | DT-105 = 1000 lux.<br>DT-105h = Outdoor | | | | | |
| Pow er supply | 88 to 264 VAC 47 to 63Hz | | | | | |
| | Dimensions (mm) | | | | | |
| | 6 characters | 13 characters | 20 characters | 26 characters | 33 characters | 40 characters |
| 1 line | 375 x 122 x 120 | 680 x 122 x 120 | 985 x 122 x 120 | 1290 x 122 x 120 | 1595 x 122 x 120 | 1900 x 122 x 120 |
| 2 lines | 375 x 230 x 120 | 680 x 230 x 120 | 985 x 230 x 120 | 1290 x 230 x 120 | 1595 x 230 x 120 | 1900 x 230 x 120 |
| 3 lines | 375 x 338 x 120 | 680 x 338 x 120 | 985 x 338 x 120 | 1290 x 338 x 120 | 1595 x 338 x 120 | 1900 x 338 x 120 |
| 4 lines | 375 x 446 x 120 | 680 x 446 x 120 | 985 x 446 x 120 | 1290 x 446 x 120 | 1595 x 446 x 120 | 1900 x 446 x 120 |
| 5 lines | 375 x 554 x 120 | 680 x 554 x 120 | 985 x 554 x 120 | 1290 x 554 x 120 | 1595 x 554 x 120 | 1900 x 554 x 120 |
| 6 lines | 375 x 662 x 120 | 680 x 662 x 120 | 985 x 662 x 120 | 1290 x 662 x 120 | 1595 x 662 x 120 | 1900 x 662 x 120 |
| Protection degree | DT-105 = IP41<br>DT-105e = IP65<br>DT-105f = IP54 | | | | | |
| 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 ±0,5ºC at 25ºC. Humidity ± 3,5% betw een 30% and 70%. | | | | | |
| Operation temperature | From -20ºC to 60ºC | | | | | |
| Stock temperature | From -30ºC to 70ºC | | | | | |

## Reference composition




* The stainless steel box is available only in the following cases:

| Number of lines | Number of characters | Box measures |
|---|---|---|
| 1 line | 6 characters | 500x200x120 |
| | 13 characters | 800x200x120 |
| 2 lines | 6 characters | 500x300x120 |
| | 13 characters | 800x400x120 |

DITEL

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