

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.

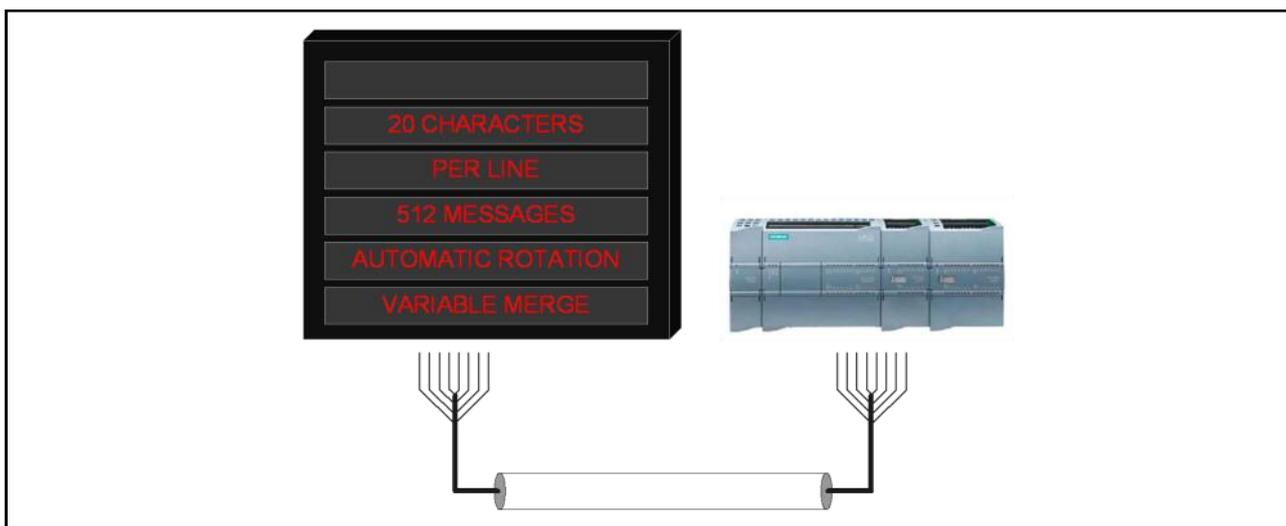
Protocol 14M-2:

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 or 26 characters			
Display matrix	LED, 5 x 7 dot matrix			
Character height	100mm			
Reading distance	50 meters			
Maximum environmental lighting	DT-110 = 1000 lux. DT-110h = Outdoor			
Power supply	88 to 264 VAC 47 to 63Hz.			
	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	2496 x 805 x 120
5 lines	666 x 1018 x 120	1276 x 1018 x 120	1886 x 1018 x 120	2496 x 1018 x 120
6 lines	666 x 1232 x 120	1276 x 1232 x 120	1886 x 1232 x 120	2496 x 1232 x 120
Protection degree	DT-110 = IP41 DT-110e = IP65 DT-110f = 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 $\pm 0,5^{\circ}\text{C}$ at 25°C . Humidity $\pm 3,5\%$ between 30% and 70%.			
Operation temperature	From -20°C to 60°C			
Stock temperature	From -30°C to 70°C			

Reference composition

