

## DT-203 SERIES

Message display of 2, 4, 6, or 8 lines.  
One or two displaying sides.  
Character **30mm.** in height.  
Indoor use.

*Parallel or serial from PLC or PC.*

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\*\* DT-203/2PS \*\*

DT-203

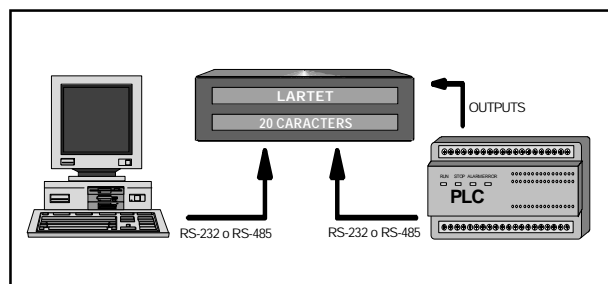
### Characteristics

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 last approximately one month.

#### Applications

It can be connected to typical PLC outputs, serial PLC or serial PC, according to the model.

### Applications

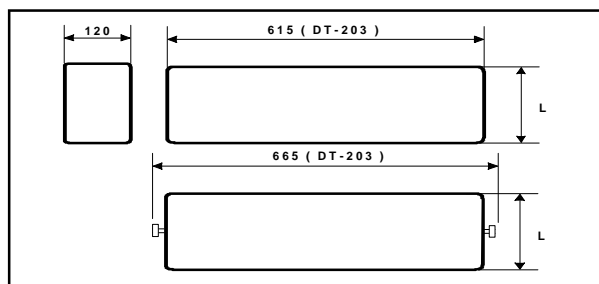


#### Perfect visibility

DT-203 are big sized displays. LED type and they use red colour. DT-203 is 30 mm in height. They are also available in amber or green. These features make them readable in almost any light environment from up to 15 meters. They are available in one or two displaying sides and from 2,4,6 to 8 lines.

Option: Relative humidity and temperature sensor.

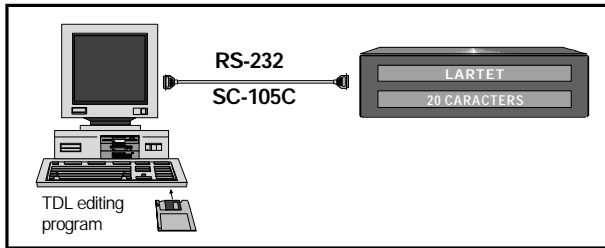
### Dimensions



### Specifications

Model	DT-203			
	DT-203nSP	DT-203nSX	DT-203nDP	DT-203nDX
n = Number of lines				
Humidity + temperature sensor		DT-203nSX + TH		DT-203nDX + TH
Control	Parallel	RS-232 / RS-485	Parallel	RS-232 / RS-485
Number of sides	1		2	
Number of lines	2, 4, 6 lines	2, 4, 6, 8 lines	2, 4, 6 lines	2, 4, 6, 8 lines
Numer character / line	20 characters			
Display	LED, matrix of points 5 x 7			
Character height	30 mm			
Reading distance	15 meters			
Maximum environmental lighting	1000 lux			
Power supply	230VAC (+/- 10%) 50/60 Hz			
Dimensions 2 lines	615 x 170 x 120 mm			
Dimensions 4 lines	615 x 317 x 120 mm			
Dimensions 6 lines	615 x 464 x 120 mm			
Dimensions 8 lines	615 x 611 x 120 mm			
Protection degree	IP-41			
Maximum number of messages	512 messages.			
Maximum length of the message	160 characters.			
Number of variables / messages	16 variables of 1 character, joined into groups by the user, from one variable of 16 characters to 16 variables of one character.			
Number of inputs	14			
Polarity of inputs	Non polarity, NPN, PNP, or contact			
Messages memory	EEPROM 32 Kb			
Case and display	Aluminium section in back . Display in extruded antireflex plastic sheet.			
Humidity + temperature accuracy	Humidity ±3,5% between 30% and 70%. Temperature ±0,5°C at 25°C			

## Message edition



### Editing and saving messages on the display.

Messages are edited by PC with TDL editor of Lartet.

### Recording messages.

Messages edited by PC are sent to DT-203P displays by RS-232 serial port and they remain saved in EEPROM memory. Batteries are not needed for message maintenance.

## DT-203SP/DP

### Message control

DT-203SP/DP are run by PLC, with conventional digital outputs of any kind, NPN, PNP or contacts. 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.

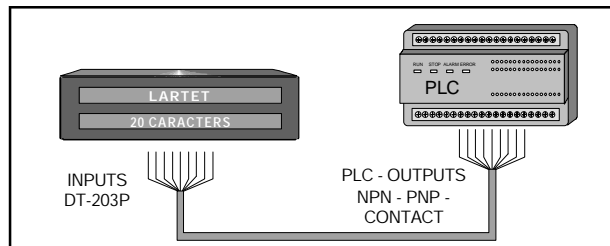
Each message needs a binary code, to control 512 messages 9 bits are needed.

### Variables.

DT-203P displays not only display texts, but also variables values. For this to be possible, it is necessary to work with static PLC outputs.

They allow from one variable with 16 characters to 16 variables of one character to be inserted in every message. Every message wished to be displayed will be given an address, which consists on the binary code.

### Working order



## DT-203SX/DX

DT-203SX,DX are run by a PC, a PLC or any device with a RS-232 or RS-485 serial output. Using the serial line RS-232 the maximum advisable it is working distance is 10m, while using the serial line RS-485 is 1000m.

Transmission protocols:

Some protocols are ready to use, select the protocol and run.

**Lartet protocol:** The message sent remains in the buffer display, which saves the information until a new message arrives.

**ModBus protocol:** Follows the ModBus rules using RTU.

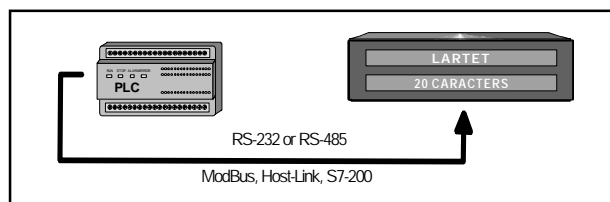
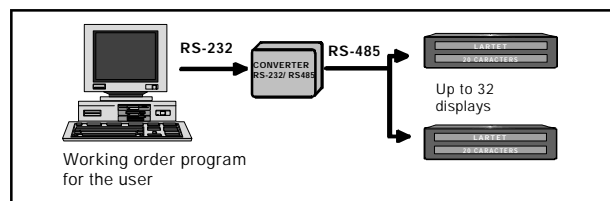
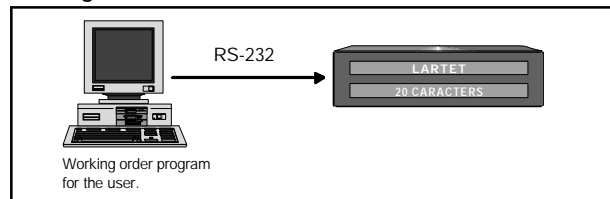
**ASCII protocol:** Is an easy protocol without CRC.

**Host-Link protocol:** To be used with Omron PLC's. It is possible to use the RS-422 serial line, but this must be **pointed out on your order**.

**S7-200 protocol:** To be used with S7-200 Siemens PLC's.

All displays include all the protocols. To select the protocol and other parameters the display has two push buttons and a easy menu.

### Working order



<b>Accessories</b>	TDL editing program	SC-105C programming cable

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