



Autometers Alliance Ltd



DIAGNOSTIC DISPLAY TERMINAL

DESCRIPTION

The Diagnostic Display Terminal is a robust terminal device constructed for harsh environments. A special wide temperature electronic, a wide temperature LCD (4x40 characters, LED backlight) and a switch panel with EMI protection are used to meet the EN50155 and the IEC 801-X specifications. The device is resistant to shock and vibration and well-protected against dust and water (front panel: IP65). Encased in a robust aluminum box and without the need of a cooling fan, the Diagnostic Display Terminal can operate from -20°C to +70°C at relative humidity of 95%.

The communication between Host and Diagnostic Display Terminal is realized by a serial link: either RS422 (standard), or RS485. The I/O-signals for RS422 and RS485 are electrically isolated.

A subset of the VT-100 command set and some useful nativecodes are implemented and give the user a high flexibility in programming the Diagnostic Display Terminal. There are commands to control the cursor and the tabulator, to insert and delete characters, to control the screen or to print a line or the entire screen (a printer Interface is implemented). The native-codes are used to initiate some special actions e.g. to Increase and decrease the contrast and brightness or to send the actual temperature of the Diagnostic Display Terminal to the Host.

The Diagnostic Display Terminal itself generates scan codes which are sent to the Host every time a key is pressed or released (MAKE and BRAKE-codes).

In partnership with:



Application:

- Diagnostic Display Terminal in 3 Phase Electric Locomotives.
- It is the ideal solution for displaying information or entering data in extreme environments.
- Its robustness makes it possible to use the device in industrial fabrication in vehicles and outdoors.

Specifications

Environment:	
Ambient temperature (operating)	-20..+70°C
Ambient temperature (storage)	-30..+80°C
Humidity (mean value)	<95%RH
Humidity (max. 90 days a year)	95..100%RH; <40°C
Cooling	No cooling fan
Technology	
Technology	LCD with LED backlight
Backlight, contrast, brightness	programmable
Display organization	4 lines × 40 characters
Character set	ASCII, 8 bit
Effective viewing area (W*H)	154.4 × 27.6 mm
Display controlling	VT-100 subset private code
Keys	
Number of keys	max. 32; customized
Layout	4 lines × 8 columns
Labeling of the keys	customized
Power	
Supply voltage	45 to 150 VDC
Power dissipation (typ.)	6.0 W
Mechanical Specifications:	
Outline dimension (W*D*H)	232 × 149 × 45 mm
Material of the case	Aluminum
Front panel	IP65
Communication:	
Serial link	RS422 / RS485
Communication parameters	Programmable
Standards:	
EN 50155, IEC 801-2, -3, -4, -5, -6	



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