



AT303

PROFIBUS-DP

PROFIBUS-DP ACTIVE TERMINATOR

- 24Vdc insulated power supply
- Galvanic insulation
- Speeds from 9.6 kbits/s to 12 Mbits/s
- LED for power supply indication
- One PROFIBUS-DP frontal DB9 connector
- One connector PROFIBUS-DP terminal block



The AT303 is an active terminator developed to increase the PROFIBUS-DP network availability and facilitate accessing any node on the PROFIBUS-DP bus without putting the network in an intermittent condition. This way, any network slave can be switched off, removed or replaced without harming the communication, especially when the terminators are enabled on the network end slaves.

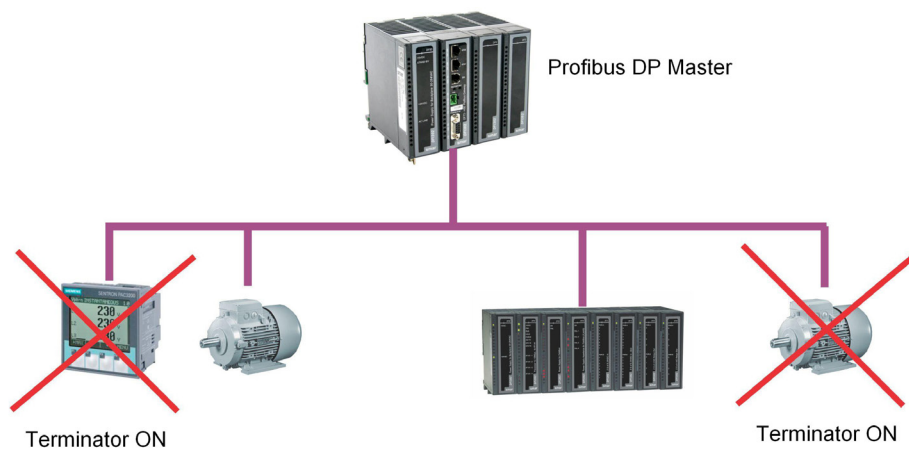
The AT303 has simple feature, but valuable, for diagnostic. The LED lit means that the AT303 is powered. The LED off means that the +5V powering is absent in the terminators resistors. In this case, check if the power supply voltage is within the allowed range.

The AT303 terminator can be mounted inside the panels with DIN rail or even on the field in boxes.

Application

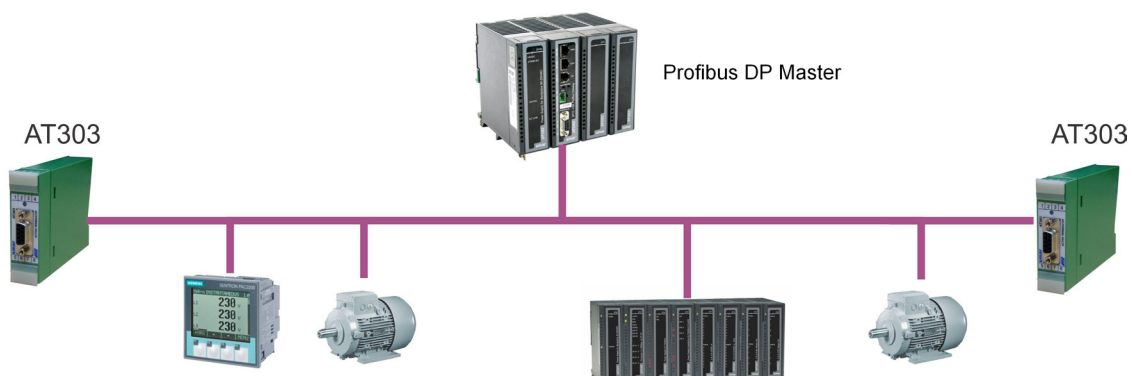
The figure below shows a network whose used terminators are part of the devices. If any device is turned off or removed, the network is without terminator.

Network without AT303 - terminator on the device



The AT303 is the solution for this type of problem, increasing the network availability. See example on next figure.

Example of AT303 application



Power Supply	
Voltage	20 to 30 Vdc
Consumption	20 mA @ 24 Vdc
Insulation	Galvanic
Wiring	Up to 2.5mm ² cable with connectors fixed with screws

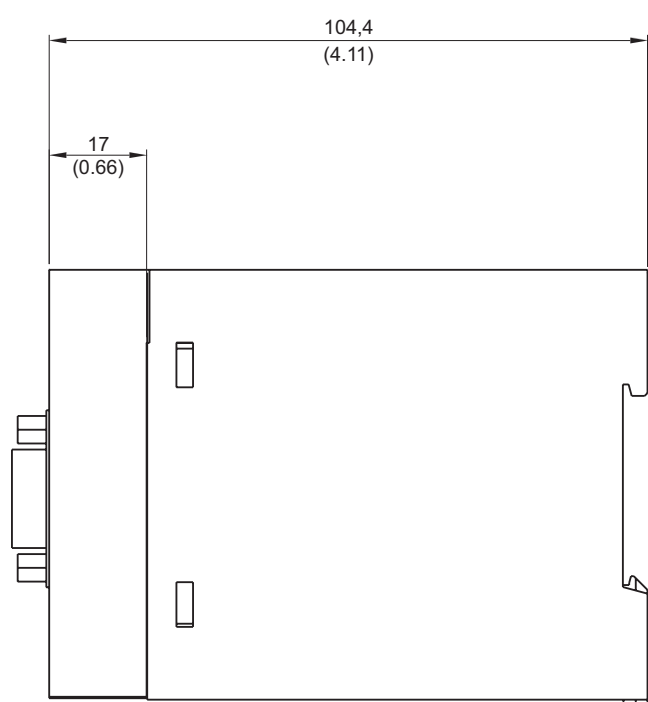
Function Specifications	
Communication	All PROFIBUS RS-485: (DP, DP-V1, DP-V2, PROFIdrive, MPI, etc.)
Communication rates (kbps)	9,6; 19,2; 45,45; 93,75; 187,5; 500; 1500; 3000; 6000 and 12000
Cable	Type A - compliant with EN50170
Termination resistors	Compliant with Profibus EN50170 standard
Protection Degree	IP-20 (DIN EN 60529 VDE 0470)

Environment Conditions	
Operation temperature	0 to 60 °C
Humidity	Up to 90%

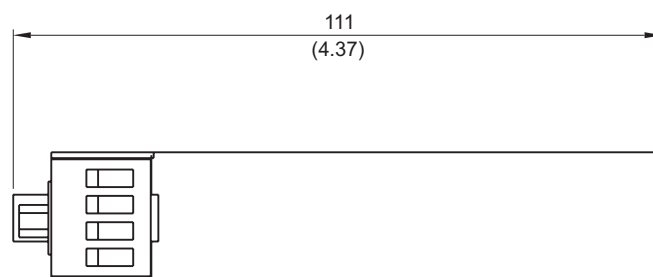
Dimensions and Weight	
Dimensions (Height x Width x Depth)	75.0 x 22.5 x 104.4
Weight	100 g

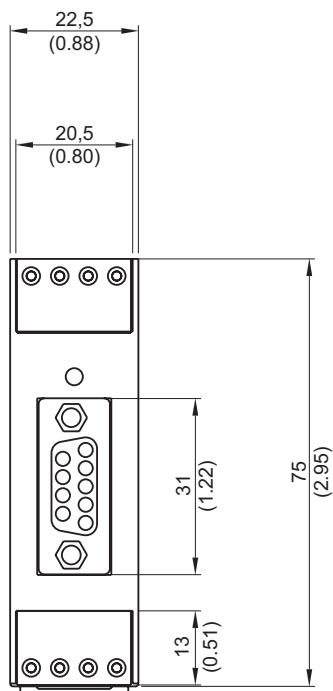
Mounting	
Support	DIN35 rail (DIN EN 60715 TH35)

Dimensional Drawings



Dimensions are in millimeters, and in brackets for inches.





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