

2.1. Hardware Types and Technical Data

The configuration of MNS Digital Gateway depends on the selected communication protocol to the DCS. For the Modbus communication to DCS the hardware shown in the table below is applicable

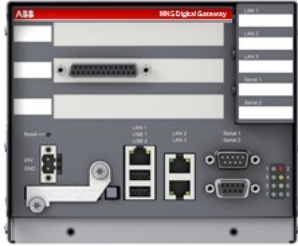
Fieldbus Protocol		Modbus	
Fieldbus Hardware Interface	RS 485 & Ethernet	RS 422 & Ethernet TCP/IP	RS 232 & Ethernet
	TCP/IP IEEE 802.3	IEEE 802.3	TCP/IP IEEE 802.3
MNS Digital Gateway ID		1TGE120021R0810	
Picture			

Table 1 MNS Digital Gateway Modbus Hardware

For communication to M10X, MNS Digital Gateway is connected via RS485 with Modbus RTU protocol. As one segment of Modbus RTU is only able to support 32 devices, MNS Digital Gateway for M10x is supplied with four Modbus RTU port to support a maximum of 128 number of devices.

ELECTRICAL DATA	
Power Supply	24V DC (19 – 31V DC)
Power Consumption	Typical 800mA, maximum 1000mA
MECHANICAL DATA	
Weight	2.5 kg
Dimensions H x W x D	140 x 160 x 165 mm
ENVIRONMENTAL DATA	
Storage Temperature	-20°C to + 70°C
Operating Temperature	0°C to 55°C
Degree of Protection	IP51
MTBF (Mean Time Between Failures)	46 years @ 40°C

Table 2 MNS Digital Gateway Technical Data