

 J1939 - Modbus RTU Slave

The Anybus X-gateway J1939 Gateway provides connectivity between a Modbus RTU (serial) network and a J1939 Heavy Duty vehicle (CAN) network. The ABX appears as a Modbus Slave device allowing a Modbus Master to read or write data from the J1939 network.

HMS provides the ABX with a Windows based configuration tool (BWConfig). This PC based software allows the user to map J1939 parameter (PGN) data into a range of memory addressable through the ABX Modbus RTU interface.



Configuration of the ABX is simple using BWConfig and consists of setting up an I/O table containing selected J1939 PGNs and the rate that each will be read or written from the J1939 network. BWConfig will then automatically map the I/O table to a range of addresses accessible from the ABX Modbus RTU interface. The configuration is downloaded from the PC to the ABX via an RS232 connection and is saved in FLASH memory.

#### KEY FEATURES

- DIN-rail mountable - PE via DIN-rail
- Configuration via a Windows-based PC software tool (BWConfig)
- Wide power supply range (12-30 VDC)
- Rugged IP20 aluminium enclosure
- Designed for harsh industrial applications
- Supports FLASH field upgrades
- UL and ATEX certification for Ex Hazardous Locations
- Transmission and reception of all types of J1939 messages, including PDU1, PDU2, broadcast and destination specific.
- J1939 Transport Protocol for transmission and reception of large messages (9 - 1785 bytes). Both connection based (RTS/CTS) and broadcast (BAM) are supported.
- Support of all commonly used Modbus functions for reading and writing I/O data and diagnostics.
- Overall module, Modbus, and J1939 status and diagnostics accessible through Modbus diagnostic functions and addressable registers.

#### TECHNICAL SPECIFICATIONS

Size: 126 mm x 110 mm x 42 mm
Power Supply: 12-30 VDC
Temperature: 0-65°C
Current Consump: Max 300 mA
Baud Rate: 4800, 9600, and 19200 bps on ModbusRTU
Mech Rating: IP20 / Nema 1
Profile Support: SAE J1939 (CAN)
Config Method: BW Config
Appl Interface: CAN and RS485
Order Code: AB7612