

Starbox LX2

Smart RTU to control and manage R&M gas station



Starbox LX2 is an innovative RTU Linux based, specifically designed for remote station control in harsh environmental conditions.

Starbox LX2 embodies the typical characteristics of a data logger with advanced multimedia features. In fact, it is a system where process control, multimedia capabilities, remote management and the internet are available and usable with identical operating standards and can be activated in a simple and intuitive way.

Remote multimedia and multi-access communication with operational centres

Remote connectivity can be supported by means of different technologies, such as GPRS, 3G, 4G, ADSL, Wireless Network and Radio Modem.

It can be easily connected to station PLC, local instrumentation and supervisors, as well as SCADA operational centres by means of a wide range of communication protocols. Local connection possible through ETHERNET, RS232, RS485 and USB.

Embedded PLC

The integrated programmable controller allows the development of local control logics, for maximum flexibility and versatility of use.

Integrated multifunctional web server

Allows connection to the device through use of WEB browser for consultation of station live data and device configuration.



City gates



District stations

Starbox - LX2 competitive advantages



Multimedia and multi-access connectivity



Integrated functions for pressure regulation and energy efficiency



Modular and scalable I/O configuration



Low energy consumption



Extended programmability through Embedded PLC

Technical features

Features	Values
Digital Inputs	16 DI 10-30 V DC opto-isolated and with 2500 V galvanic isolation
Digital outputs	8 DO 10-30 V DC opto-isolated and with 2500 V galvanic isolation
Analogue inputs	8 AI 16 bit 4-20 mA / 0-10 V DC with 2500 V galvanic isolation
Analogue outputs	8 AI 16-bit 4-20 mA / 0-10 V DC with 2500 V galvanic isolation
Expandability	up to 160 DI, 64 DO, 32 AI, 16 AO with MODBUS RS485 / RS422 / ETHERNET
Communication ports	1 RS232 - 1 RS232 / 485 - 2 RS485 / 422 - 1 Ethernet 10/100 Mb/s 1 USB
HMI	Local 7" colour touch screen LCD display (Optional) 6 x 18 alphanumeric local display with 5 keys (Optional) Internet mode: via standard browser
Case	IP 20
Power	10 - 30 V DC
Typical consumption	2-4 watt
Environmental conditions	-20°C + 80°C
Memory Expansion	SD CARD / USB
Dimensions	170x155x60 mm

Functionalities

Features	Values
Automation	Embedded PLC with ladder logic standard IEC 61131-3
Protocols And Standards For Remote Communications	MODBUS RTU/SNMP/MODBUS TCP/IP/DLMS/IEC 62056-21/IEC 60870-5-101/104 Communication modes: Real-time/batch/file transfer/FTP
User messages	SMS / e-mail
Allarmi	Signalling and management of alarms and events generated by exceeding the threshold and/or reaching physical/logical states. Use of the message service for alarm notification.
OPC Connectivity	Trough OPC SERVER
Configuration	From PC via "Rainbow Configurator" Fast software
User Application	Using LADDER/C++ languages in a LINUX environment
Operating system	LINUX embedded