



Starbox LX2 is an innovative smart Linux based RTU, specifically designed for remote gas 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

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



City gates



District stations

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 Al 16 bit 4-20 mA / 0-10 V DC with 2500 V galvanic isolation	
Analogue outputs	1 AO 16 bit 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	 1x RS232 1x RS232 / 485 2x RS485 / 422 1x Ethernet 10/100 Mbps 1x USB 	
НМІ	 Local 7" colour touch screen LCD display (optional) 6 x 18 alphanumeric local display with 5 keys (optional) Embedded web server 	



Features	Values
Power supply	10 - 30 V DC
Typical consumption	2 - 4 watt
Case	Aluminium
Ingress protection	IP 20
Environmental conditions	from -20° C to +80° C from -4° F to +176° F
Memory Expansion	SD card / USB
Dimensions	170 x 155 x 60 mm 6.7 x 6.1 x 2.4 inches
Automation	Embedded PLC with ladder logic standard IEC 61131-3
Protocols and standards for remote communications	 MODBUS RTU/TCP SNMP IEC 62056-21 IEC 60870-5-101/104
Communication modes	Real-timeBatchFile transfer FTP
User messages	SMS / e-mail
Alarms	 Analogue inputs: programmable over and/or under thresholds Digital inputs: programmable physical/logical states Diagnostic Custom variables
OPC connectivity	OPC UA server
Configuration	From PC via "Rainbow Configurator" fast software
User Application	Using LADDER/C++ languages in a Linux environment
Operating system	Linux embedded

Table 1 Features

Starbox LX2 competitive advantages



Multimedia and multi-access connectivity



Modular and scalable I/O configuration



Extended programmability through Embedded PLC



Integrated functions for pressure regulation and energy efficiency



Low energy consumption



VPN-based encrypted communication