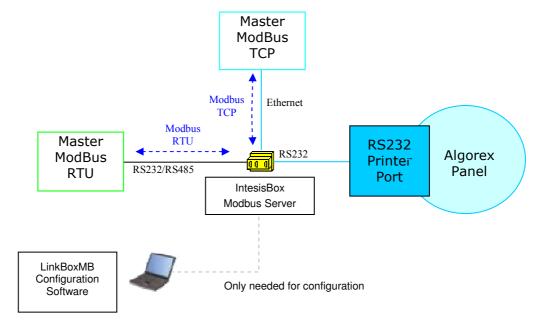


Gateway for the integration of Siemens Algorex fire detection panels into Modbus enabled control systems.

Monitor your Algorex fire panels remotely from your Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.



IntesisBox has been designed to monitor Siemens Algorex fire detection panels through their RS323 printer port from a Modbus master or client device.

IntesisBox connects directly to the printer port RS232 of the Algorex panel, and in the other side to the Modbus network, via TCP (Ethernet) or RTU (RS232 or RS485) configurable by software.

Immediate availability of the states of the Algorex elements (detectors, modules...) in IntesisBox (event driven protocol). IntesisBox has a fully configurable table associating Algorex elements with Modbus register addresses. Each possible state of the Algorex' elements can be associated to an individual value to be showed in Modbus. To ease the configuration process, the import of EP7 and EP5 Siemens Cerberus structure definition files is allowed by the configuration software tool LinkBoxMB.

IntesisBox Modbus Server series are configured using LinkBoxMB, a software tool for windowsTM which is supplied along with the purchase of IntesisBox with no additional cost. The user interface of LinkBoxMB allows simulating the values of the Modbus registers without the need to be physically connected to the panel, very useful while in commissioning phase.

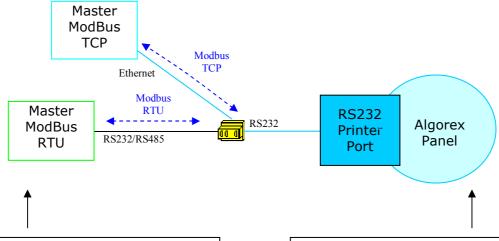
IntesisBox capacity

Element	Max.	Notes
Number of Points	4000	Number of Algorex points that can be defined in IntesisBox.

Ref.: IBOX-MBS-ALGOREX

Sample application

Integration of Algorex fire panel into Modbus control systems.

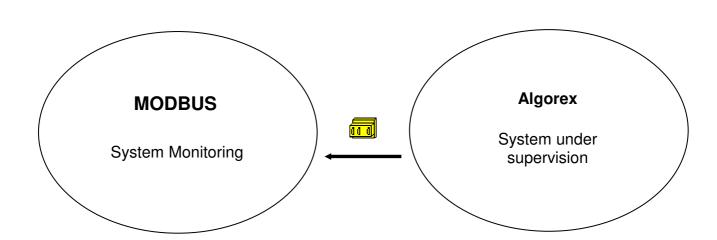


Modbus control system

- BMS.
- SCADA.
- HMI.
- TouchPanels.
- ...

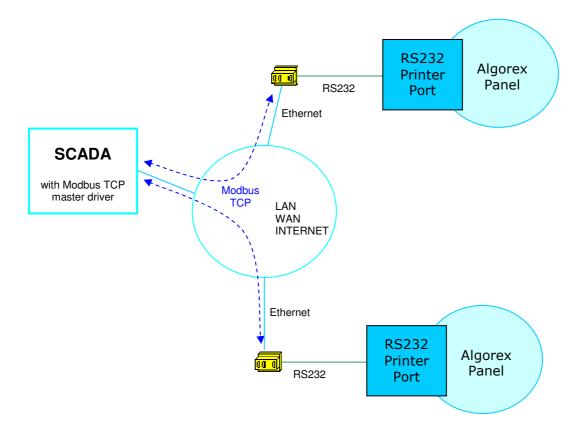
Algorex fire detection panel through printer port RS232:

- Detectors.
- Modules.
- Zones.
- ..



Typical application

Monitoring of ALGOREX fire panels remotely from a Control Center using any commercial SCADA or monitoring software with Modbus TCP driver.



URL

email

http://www.intesis.com

nail info@intesis.com tel +34 938047134

Algorex interface of IntesisBox

General	
Max. points	4000

Algorex interface	
Туре	IntesisBox simulates a serial printer connected to the printer port of the Algorex panel (RS232). Only state of elements can be received by IntesisBox, commands towards the panel can not be sent.
Configuration parameters	 Baud rate. Every possible state (Normal, Alarm, Fault) of a device (detector, module) in the Algorex panel can be freely associated to a numerical value. This numerical value will be the point's value read from Modbus when the associated Algorex device is in this status. All the points are of type analog from the point of view of Modbus.
Interactivity with Algorex	Allows only monitoring, no commands toward the panel are allowed.

Modbus interface of IntesisBox

Modbus interface	
Device type	Slave.
Modbus modes supported	TCP, RTU RS232 or RS485.
Modbus TCP configuration parameters	IP address.Subnet mask.Default gateway.TCP port.
Modbus RTU configuration parameters	RS232/RS485.Baud rate.Slave number.

Points	
Parameters configurable per point	 Generic fields. Point description. Useful to identify the point's location into the building. Active (Yes/No). Useful to deactivate points maintaining the configuration for later use. Algorex related fields. Area Section Zone Element This information must be supplied by the engineer that has set up the Algorex system. Modbus related fields. Point address (14000). This information, along with the description of points, must be supplied to the engineer in charge of setting up the integration into the Modbus system.
Modbus data types	All the points are of data type UNSIGNED INT in the Modbus interface.

Configuration tool

LinkBoxMB

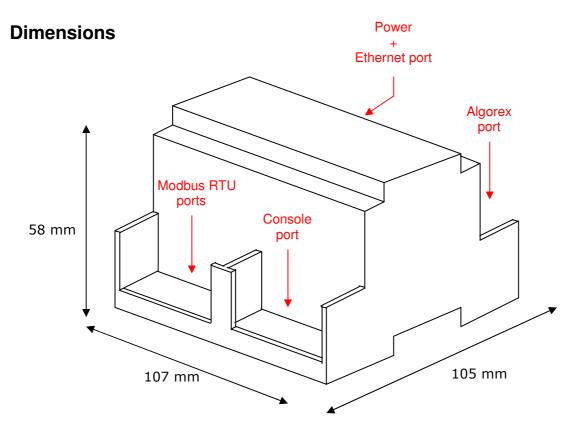
- Visual engineering tool, easy of use, for gateway's configuration and supervision compatible with Microsoft Windows operating systems, supplied with the gateway free of charge.
- Multi-window tool allowing to supervise simultaneously the communication activity with both protocols (systems), real time values for all the signals allowing to modify any value (very useful for test purposes), console window showing debug and working status messages, and configuration windows to configure all the gateway's parameters and signals.
- Signals configuration in plain text files (tab separated) for easy and quick configuration using Microsoft Excel (very useful in projects with a lot of points).
- Allows configuring the gateway's parameters and signals while in off-line (not connected to the gateway).
- Connection to the gateway for download the configuration and supervision by using serial COM port of the PC (serial cable supplied with the gateway).
- Allows configuring all the external protocols available for IntesisBox® Modbus series.
- Upgrades for this software tool available free of charge whenever a new protocol is added to the IntesisBox[®] Modbus series.
- Multi-project tool allowing having in the engineer's PC the configuration for all the sites with different IntesisBox[®] Modbus series gateways.
- Multi-language tool, all the language-dependent strings are in a plain text file (tab separated) for easy modification or addition of new languages.
- A list of system commands is available to send to the gateway for debugging and adjust purposes (Reset, Date/time consultation/adjust, Firmware version request...).

Mechanical & Electrical characteristics

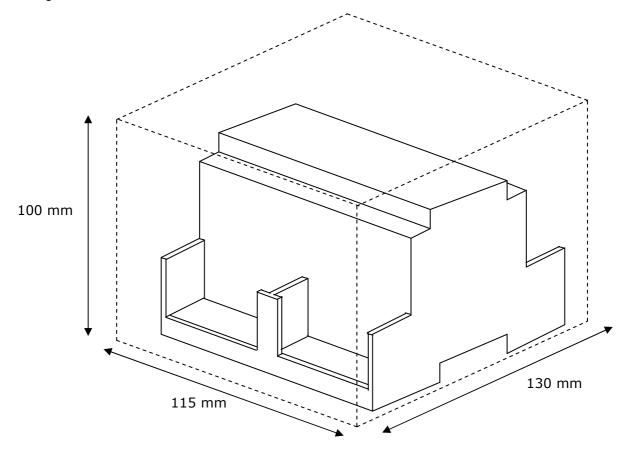


Enclosure	Plastic, type PC (UL 94 V-0). Dimensions: 107mm x 105mm x 58mm.
Color	Light Grey. RAL 7035.
Power	9 to 30Vdc +/-10% 1.4W.
	24Vac +/-10% 1.4VA.
	Plug-in terminal bloc for power connection (2 poles).
Mounting	Wall.
	DIN rail EN60715 TH35.
Modbus TCP port	1 x Ethernet 10BT RJ45.
Modbus RTU ports	1 x RS232. DB9 male connector (DTE).
	1 x RS485. Plug-in terminal bloc (2 poles).
Algorex port	1 x RS232. DB9 male connector (DTE).
LED indicators	1 x Power.
	2 x Algorex port activity (Tx, Rx).
	2 x Modbus RTU port activity (Tx, Rx).
	2 x Ethernet port link and activity (LNK, ACT).
Console port	RS232. DB9 female connector (DCE).
Configuration	Via console port. ¹
Firmware	Allows upgrades via console port.
Operational	0°C to +70°C
temperature	
Operational humidity	5% to 95%, non condensing
Protection	IP20 (IEC60529).
RoHS conformity	Compliant with RoHS directive (2002/95/CE).
Certifications	CE

Standard cable DB9male-DB9female 1,8 meters long is supplied with the device for connection to a PC COM port for configuring and monitoring the device. The configuration software, compatible with Windows® operating systems, is also supplied.



Recommended available space for its installation into a cabinet (wall or DIN rail mounting), with space enough for external connections:



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