



Total Building Solutions

DESIGO INSIGHT with AlgoRex and CS440 on CERLOOP

Connectivity solution

Building management station with a network of fire and intrusion panels.

Highlights

- Modular, user-friendly building automation and control system (building automation and life safety and security)
- Integrated monitoring of all building installations (building automation, HVAC, fire, security, safety etc.)
- Single-user PC operation
- Modular software to meet all customer needs
- Ease of operation in familiar Windows environment
- Standard network technology for secure and fast communication
- Full compatibility with Siemens products for fire, security, safety and automation
- Assurance of total reliability
- Wide-ranging application competence
- Safe investment thanks to modular software and open architecture
- Flexibility in adapting to organizational changes and system expansion
- Modern information and reporting system
- Web-enabled

- Combined logging
- High quality graphics-based management station for handling fire & safety systems
- Solutions based on openness and standards (OPC)
- Facility to link intervention text messages, and place these in the graphics in areas where fire detection is installed (especially important in hazardous areas)
- Scope for alarm routing via fax, e-mail and SMS – important and often requested

System architecture

This configuration allows for integration of CS11 fire panels (AlgoRex) and CS440 intrusion panels (in a CERLOOP¹⁾ configuration) into the management station, DESIGO INSIGHT, via the OPC server. The OPC server can be installed on the DESIGO INSIGHT management station PC or on a dedicated OPC server (connected directly to the Ethernet).

¹⁾ Proprietary Class A loop

Communication

Both events and commands are transmitted and processed.

Management level

- Events are sent spontaneously from any panel via the OPC Server to DESIGO INSIGHT.
- Commands such as *acknowledgement*, *reset*, *test*, *arm/disarm*, *connect/disconnect* can be sent from DESIGO INSIGHT via the OPC server to the associated panel.

Automation level

No direct communication at the automation level, i.e. from VISONIK, INTEGRAL MS2000 or DESIGO devices to safety and security panels.

Combined system components

Level	System	Name	Minimum software version
Building automation and control system			
		VISONIK	V 20.xx
		INTEGRAL MS2000	V 3.03
		UNIGYR	V 7.5
		DESIGO	V 2.1
Management level	Management station	DESIGO INSIGHT	V 1.1 V 1.5 for UNIGYR V 2.1 for DESIGO
Safety & security system			
Automation level	Fire panel: AlgoRex	CS11	EP5
	Intrusion panel: CS440	CS440	V9.xx
The building automation system can be any of those described above. However, the head-end must be DESIGO INSIGHT in all cases.			
Connectivity components			
Management level	OPC Server	MK8000	R1.0
Automation level	MK7022 gateway	MK7022	V10.xx
	CK1142 (for CS11 only)	CK1142	V5.xx

Recommendations

- The OPC server displays a simplified model of the control panels
- This is an integration solution at the management station level. Life safety integration must be dealt with at a different level.

