

NOVAR OPUS™ XCM.20R / XCM.10S

Executive Controller/Server Platform

OPUS XCM.20R

The Novar Opus XCM embedded controller/server platforms combine integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and Web-serving capabilities. The built-in data servers make it possible to control and manage a variety of field devices over the Internet and present real-time and historical information to users in Web-based graphical views. Xcm.20R data servers are designed to integrate diverse systems and devices into a seamless system and they support a wide range of protocols including NovarNet®, Obix, LonWorks®, BACnet®, and MODBUS® and are backward compatible with most Novar Logic One and Spectrum field controllers .

New installations will benefit from its compact footprint, integrated IO, integrated LCD panel, and expanded connectivity protocols.

Existing installations can transition to this new product from existing Novar Executive Controllers and Savvys with a “drop-in replacement” form-factor. This facilitates rapid migration to Opus while leveraging their current investment in legacy Novar field controllers.

OPUS XCM.10S

The Opus XCM10S functions as an open Building Automation System (BAS) network manager that combines integrated control, supervision, data logging, alarming, and scheduling into a single controller platform. The XCM10S is designed to integrate diverse devices into a seamless system, as it supports BACnet® and MODBUS® open protocols. The XCM10S also supports NovarNet protocol and is backward compatible with most Novar Logic One and Spectrum field controllers.



Opus XCM.20R



Opus XCM.10S

FEATURES & BENEFITS



Improved Battery charging and monitoring hardware reduces nuisance alarms



Integrated local inputs and outputs



Easy to install (compatible with legacy Novar baseplates)



Small compact design



Built-in color or greyscale LCD Panel

NOVAR OPUS™ XCM.10S / XCM.20R Executive Controller/Server Platform

OPUS XCM.10S SPECIFICATIONS	
DIMENSIONS	13.25" W x 30" H x 2.5" D
MOUNTING	Compatible with EC and Savvy surface mounted baseplates
OPERATING ENVIRONMENT	Temperature: 32°F to 122°F (0°C to 50°C) Humidity: 0 to 95% Relative, non-condensing
OUTPUTS	8 Relay: 24VAC or VDC, 2 amp pilot duty Class 2 1 System Fault: 24VAC or VDC, 2 amp pilot duty Class 2
INPUTS	8 Universal Thermistor: Type 3, 10K -10 to 135 F Voltage: 0-10VDC, input impedance >5K ohms Current: 0-20mA (switch selectable) Digital: contact closure only, 300uA wetting current 3 Analog: 4-20mA (loop source 24VDC @ 500mA max) 2 Digital contact closure only 8 Timed Override: for use with Novar 8-button override panel
APPLICATION REQUIREMENTS	Opus Version 5.5 or higher Application Version 4.0 or higher
COMMUNICATIONS	2 RS-485 Ports (non isolated) - Application Protocol - NovarNet : 1.7-9.6 kBd (biasing may be required) - BACnet MSTP: max 76.8 Kbps - Modbus RTU: 38.4 Kbps 1 RS-232 Port: 9-pin D-shell connector for serial shell mode access 2 Ethernet Ports: 10/100 Mbps Application Protocol, BACnet IP, Modbus TCP, Niagara Network (Fox), oBIXLED
POWER REQUIREMENTS	Input: 24 VAC, Class 2 (22 to 30 VAC), Frequency: 50/60 Hz Consumption: 40 VA Protection: all inputs/outputs protected against high voltage surge and transients
LED INDICATORS	Output, Power, Module Communications, Network Communications
APPROVALS	Listed device: CUL/UL E90949 Standards used: UL 916, Energy Management Equipment CSA C22.2, No. 205-M1983

CALIFORNIA TITLE 20 COMPLIANCE STATEMENT

The following pertains to both the xcm.10S and the xcm.R20:

To maintain compliance with California Title 20, all XCM's manufactured after January 1, 2017 do not contain batteries. Any references to batteries or battery replacement pertain only to units manufactured prior to 2017.

For more information

www.novar.com

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OPUS XCM.20R SPECIFICATIONS	
DIMENSIONS	12.5" W x 13" H x 2.0" D
MOUNTING	Compatible with the following surface mounted baseplates: XCM 20R (new installations), EP2, Lingo, Lingo XE, and Envoy XE
OPERATING ENVIRONMENT	Temperature: 32°F to 122°F (0°C to 50°C) Humidity: 10 to 90% Relative, non-condensing
OUTPUTS	4 Digital: 24VAC or DC, 2 amps, Class 2 SPDT relay outputs
INPUTS	8 Universal Thermistor: Type 3, 10K 14 to 212 F Voltage: 0-10VDC, input impedance >5K ohms Current: 4-20mA, input impedance >5Kohms, loop source 20-24VDC Digital: contact closure or pulse, open circuit voltage 5VDC, dry contact wetting current 4mA, max pulse count frequency 20Hz @ 50% duty cycle
DIAGNOSTICS	5 integrated diagnostic points for monitoring internal and external power supplies, system ambient temperature and transformer ground fault status
APPLICATION REQUIREMENTS	Opus Version 5.5 or higher Application Version 4.0 or higher Xcm20Rio.jar version 1.1 or higher
COMMUNICATIONS	6 RS-485 Ports (non isolated; optimized failsafe biasing provided on all ports) - Application Protocol - NovarNet : 1.7-9.6 kBd (biasing may be required) - BACnet MSTP: max 76.8 Kbps - Modbus RTU: 38.4 Kbps 1 (Optional) LonWorks Port using additional optional card: max 76.8 kbps 1 RS-232 Port: 9-pin D-shell connector for serial shell mode access 2 Ethernet Ports: 10/100 Mbps Application Protocol, BACnet IP, Modbus TCP, Niagara Network (Fox), oBix
POWER REQUIREMENTS	Input: 24 VAC, Class 2 (22 to 28 VAC), Frequency: 50/60 Hz Consumption: 40 VA Protection: all inputs/outputs protected against high voltage surge and transients
LED INDICATORS	Output, Power, Module Communications, Network Communications
APPROVALS	Listed device: CUL/UL E90949; UL R/C E134292 Standards used: Module is UL listed as PAZX and PAZX7 per UL916 and also UL Recognized Component as SDFY2 and SDFY8 per UL 873, "Signal Equipment", CE, FCC Part 15, Class A International: CE, C-Tick, and WEEE

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