MetaCenter I/O

Identification: MetaCenter I/O

Part number: Refer to Product guide / price list for specific part number or contact dealer

Product Family: MetaCente

Function: Provides general purpose I/O (input/output) for a MetaCenter system

enhancing monitoring capabilities and providing distributed system

automation.

Definition: I/O controller with enhanced software features & functions

Capacity: 8 x Digital inputs 4 x Analogue Inputs

16 x Virtual Relay outputs (6 physical)

Supported protocol: Air & Modbus RTU via dedicated network gateway

Software: Pre-programmed application software, configurable via password protected

operator interface

Product overview:

MetaCenter I/O provides additional general purpose I/O (input/output) for a MetaCenter system, enhancing monitoring capabilities and providing distributed system automation. More than one MetaCenter I/O can be

installed in a system (refer to MetaCenter Mgmt system unit for MetaCenter I/O capacity).

Digital inputs can be used to monitor switching contact devices each rated @ 24vDC, 10mA (minimum), configurable via software _____'open or ____'closed circuit with 4 configurable conditions and additional virtual relay configurability for 'delay time', 'reset' & 'pulse count' functions. The pulse count function can be used for metering (for example m³, ft³, kWh) providing an accumulative count of pulses from a metering device.

Analogue inputs can be used to monitor sensor devices (for example: pressure, differential,

temperature, dew point, flow, current, power, bearing condition sensors). Each input is equipped with adjustable high or low level detection that can be used to activate an Alarm or High Level Alarm or used for system-wide automation. MetaCenter I/O analogue inputs can function (the purchase of alternative analogue condition modules may be required) with digital NO or NC, 0-10vDC, 0 – 20mA, 4-20mA, 0 – 20mA earth referenced, 4-20mA earth referenced, KTY, RTD, PT100, PT1000 &10k NTC. 27 'unit texts' can be assigned via software configuration and covering the majority of units of measure.

Relay outputs use 'Virtual Relay Automation' technology and are totally configurable with duel input logic functions. Relay functions can be assigned utilising any status or condition information available on a MetaCenterAir system network from any compatible unit connected to the network.

MetaCenter I/O features 16 configurable 'virtual relays', each relay can be separately configured. 'Virtual Relay' is a configurable system-wide automation concept that allows output relay functions to respond to any 'virtual relay' condition, status or signal function available in the MetaCenter I/O or from a compatible MetaCenter unit on the system network.

Local (L) or Remote (R):
defined automatically

Function Type (A, T, S, R, F): Alarm, Trip,
Signal state, Relay state, Status function

Fig. 8

Function Type (A, T, S, R, F): Alarm, Trip,
Signal state, Relay state, Status function

System Unit (SYS, C01 – C12, B01 – B12) : location of function status information Function Definition: Defines a specific input function (see function list)

Virtual relays have the capability to accept 2 input functions and apply 'logic' (IF, AND, OR, XOR) to determine the appropriate output response.

The 'normal' relay state plus delay ON & OFF are configurable parameters.

MetaCenter I/O is equipped with 6 'physical' relay contact outputs (R1 – R6). The function of each relay is determined by the set-up of the equivalent 'Virtual Relay'. For example R1 can activate Table 3 by connecting the output terminals of R1 to the 'Activates Table 3 input' terminals.

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monitoring capabilities and providing distributed system automation.

I/O controller with enhanced software features & functions Definition:

Capacity: 8 x Digital inputs

4 x Analogue Inputs

16 x Virtual Relay outputs (6 physical)

Processor: 16bit ST10 Micro-processor

Op. interface: Back lit LCD

Pre-programmed application software, configurable via password protected operator Software:

interface

Protocol: Air & Modbus RTU via dedicated network gateway

Supply / Power: 230Vac +/- 10%, 115Vac +/- 10%, 50VA

Enclosure rating: IP54 / NEMA12

Height: 9.5" (241mm) x Width: 11.45" (291mm) x Depth: 6" (152mm) Dimensions:

Access: Front, lockable, hinged access panel Cable entry: Bottom, gland cable entry system

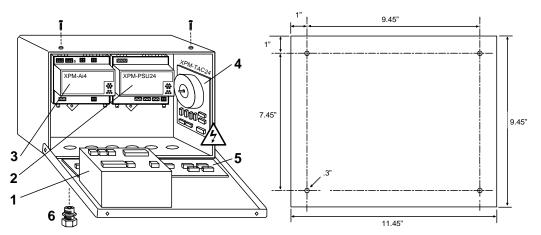
14 lb (6.4kg) Weight:

Mounting: Wall, 4 x screw fixing

Min 32°F (0°C) Max 115°F (+46°C) Temperature:

Humidity: 95% RH non-condensing

Approvals: CE, UL, cUL



Item - description
1 Unit, Controller
2 Unit, XPM-PSU24
3 Unit, XPM-Ai4
4 Unit, XPM-TAC24
5 PCB, Terminal
6 Gland, Set PG 13.5

Analogue input display units:	
mBr	BAR
PSI	kPa
mPa	dΡ
°C	°F
m³m	m³h
cfm	m³
ft ³	L/s
L/m	L/h
rpm	spm
dBn	kW
kWh	mV
V	kV
mA	Α
0/	

Special function relays:

Timer relays

Pulse relays

Compressor status relays (available, running, loaded) SCR relays (e.g. dryer sequencing from dew point AI)

Refer to technical documentation or dealer for additional info





