

data

## SHEET



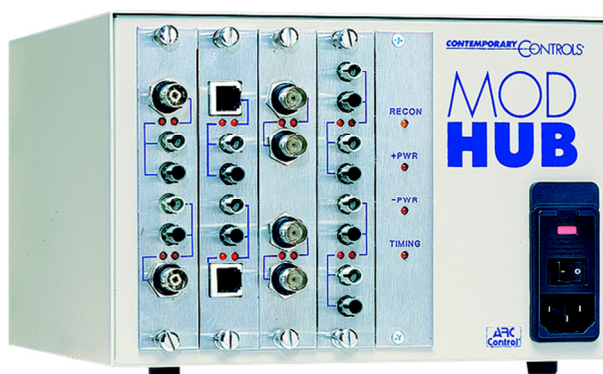
## MOD HUB — Flexible ARCNET Active Hub

The MOD HUB Series of modular active hubs is flexible enough for cabling ARCNET networks in either a star or bus topology. Units can link bus topologies by attaching the hub to one end of each bus segment.

These 4-slot hubs provide worry-free operation using low power, low-heat CMOS components; high-efficiency LED lights; a special cooling system inherent in the design; and network diagnostic capability using LED indicators.

### Compatible with the baseband 2.5 Mbps ARCNET® network

- Supports up to 16 ports in four slots
- One-size enclosure: 4-slot
- Offers easy expansion with EXP Series plug-in modules
- Mixes coaxial, twisted-pair, and glass fibre optic cable in one hub
- LED indicator identifies reconfiguration of the network
- Minimizes hub jitter with precision delay-line timing
- Rack-mounting accessory available
- Watch-dog timer prevents hub lockup
- Hub unlatch delay digitally controlled
- Universal voltage power supply
- Works with all Contemporary Controls Network Interface Modules (NIMs) when operating at 2.5 Mbps
- CE Mark
- RoHS compliant



### MOD HUB — Versatile ARCNET Support

LEDs monitor proper hub timing and power supply status. An additional LED reports network reconfigurations.

Different enclosure styles are offered to meet any requirements. Using the rack-mounting kit, two 4-slot enclosures can be mounted within a standard 19" (48.3 cm) rack requiring 7" (17.8 cm) of vertical rack space. Alternately, the MODHUB-16F flanged unit allows wall mounting.

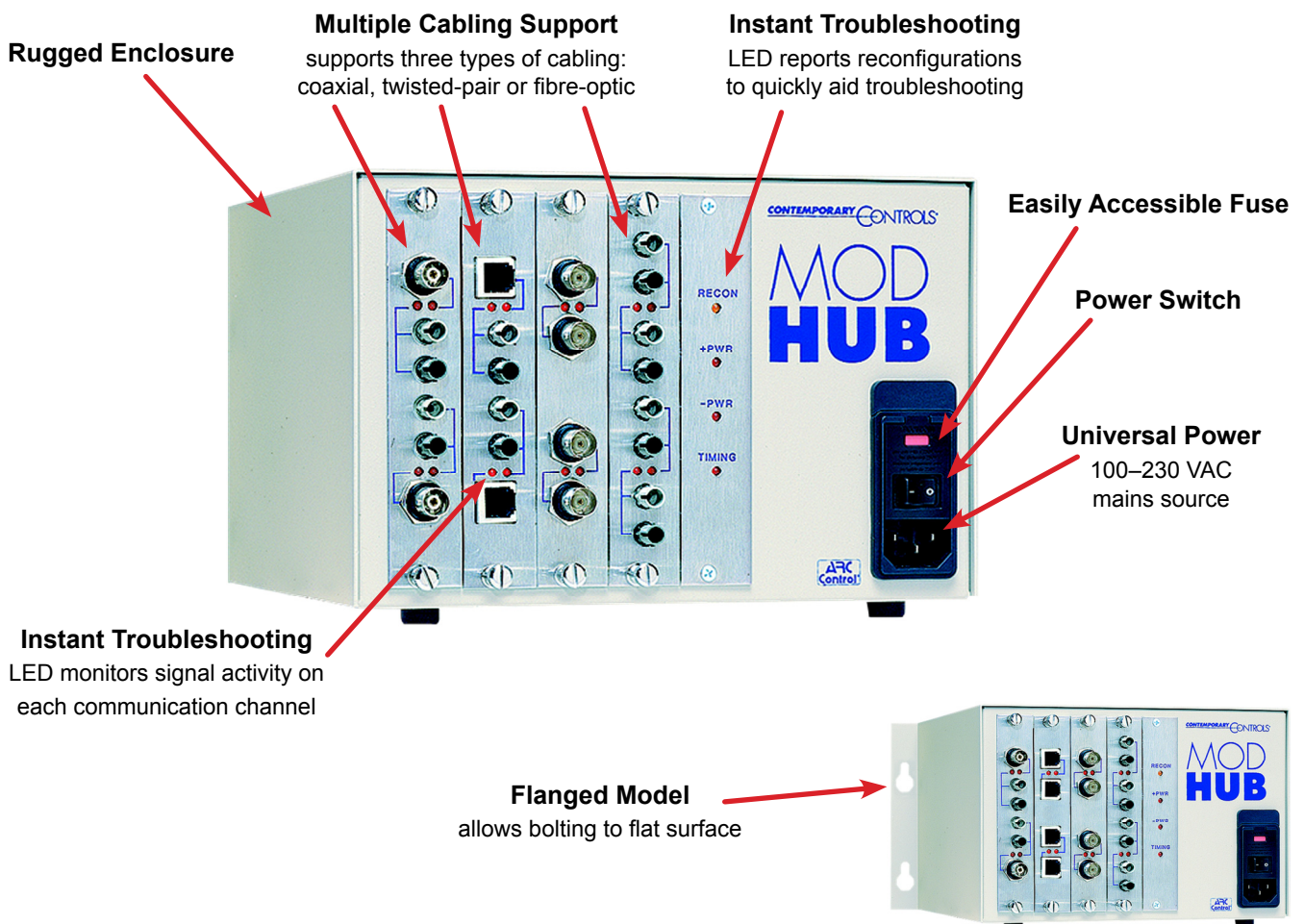
A chief advantage is the built-in flexibility so you need to order only the amount and type of connection for your application. Several expansion modules exist in the EXP Series — each supporting two or four ports.

In just one hub, you can mix and match coaxial cable, twisted-pair wire and glass fibre optic cable.

Two combination expansion modules mix two cabling types on one module. Ports can be easily added in the field with removable EXP expansion modules.

As for regulatory compliance, all models are UL 60950 Listed and C-UL Listed (CSA 22.2 No 60950) for Safety of Information Technology Equipment.

A universal power supply accommodates world-wide voltages and frequencies. An IEC connector allows the use of country-specific power cords.



# Specifications

## Electrical Input

Voltage	100–230 VAC
Current	500 mA (max)
Frequency	47–63 Hz
Input fuse(s) <sup>1</sup>	1 A slo blo, 5 mm x 20 mm

## Environmental/Mechanical

Operating temperature	0°C to 60°C
Storage temperature	–40°C to +85°C
Relative humidity	10–95%, non-condensing
Protection	IP30

## Regulatory Compliance

CE Mark  
RoHS  
CFR 47, Part 15 Class A  
UL 60950 Listed  
C-UL Listed, CSA 22.2 No. 60950  
IEC 950 classified

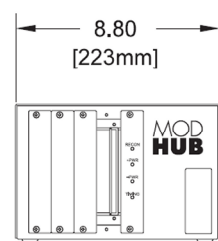


<sup>1</sup> All “E” models are equipped with two fuses and a continental Europe power cord.

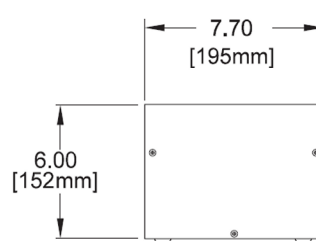
# Electromagnetic Compatibility

Standard	Test Method	Description	Test Levels
EN 55024	EN 61000-4-2	Electrostatic Discharge	4 kV contact & 8 kV air
EN 55024	EN 61000-4-3	Radiated Immunity	10 V/m, 80 MHz to 1 GHz
EN 55024	EN 61000-4-4	Fast Transient Burst	1 kV clamp & 2 kV direct
EN 55024	EN 61000-4-5	Voltage Surge	1 kV L-L & 2 kV L-Earth
EN 55024	EN 61000-4-6	Conducted Immunity	10 Volts (rms)
EN 55024	EN 61000-4-11	Voltage Dips & Interruptions	1 Line Cycle, 1 to 5 s @ 100% dip
EN 55022	CISPR 22	Radiated Emissions	Class A
EN 55022	CISPR 22	Conducted Emissions	Class A
CFR 47, Part 15	ANSI C63-4	Radiated Emissions	Class A

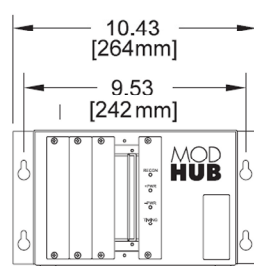
## Mechanical Diagrams



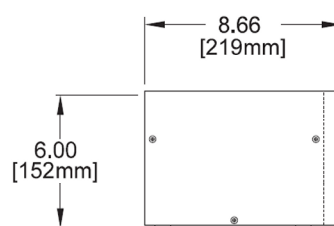
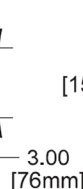
**MODHUB-16, 16E**



**SIDE VIEW**



**MODHUB-16F, 16EF**



**SIDE VIEW**

## Ordering Information

<b>Model</b>	<b>Description</b>
MODHUB-16	16-port powered card cage (120 V 50/60 Hz)
MODHUB-16E	16-port powered card cage (230 V 50/60 Hz)
MODHUB-16EF	16-port powered card cage, flange mounted (230 V 50/60 Hz)
MODHUB-16F	16-port powered card cage, flange mounted (120 V 50/60 Hz)

## Accessories

<b>Model</b>	<b>Description</b>
MTG-RAK	MODHUB rack-mounting kit

First, order the MOD HUB enclosure you need. Then choose the particular mix of expansion modules that will fill the enclosure. Refer to the EXP Series data sheet for detailed information.

### United States

**Contemporary Control Systems, Inc.**  
2431 Curtiss Street  
Downers Grove, IL 60515  
USA

Tel: +1 630 963 7070  
Fax: +1 630 963 0109

[info@ccontrols.com](mailto:info@ccontrols.com)  
[www.ccontrols.com](http://www.ccontrols.com)

### China

**Contemporary Controls (Suzhou) Co. Ltd**  
11 Huoju Road  
Science & Technology Industrial Park  
New District, Suzhou  
PR China 215009

Tel: +86 512 68095866  
Fax: +86 512 68093760

[info@ccontrols.com.cn](mailto:info@ccontrols.com.cn)  
[www.ccontrols.asia](http://www.ccontrols.asia)

### United Kingdom

**Contemporary Controls Ltd**  
14 Bow Court  
Fletchworth Gate  
Coventry CV5 6SP  
United Kingdom

Tel: +44 (0)24 7641 3786  
Fax: +44 (0)24 7641 3923

[ccl.info@ccontrols.com](mailto:ccl.info@ccontrols.com)  
[www.ccontrols.eu](http://www.ccontrols.eu)

### Germany

**Contemporary Controls GmbH**  
Fuggerstraße 1 B  
04158 Leipzig  
Germany

Tel: +49 341 520359 0  
Fax: +49 341 520359 16

[ccg.info@ccontrols.com](mailto:ccg.info@ccontrols.com)  
[www.ccontrols.eu](http://www.ccontrols.eu)