

SensorNet/Manchester Distribution Panel

Features That Make a Difference:

- Amplifies SensorNet or Manchester protocol signals for multi-point dome control
- Switch easily between SensorNet or Manchester protocols
- Accommodates home-run dome wiring via 16 output ports
- Supports home-run, daisy chain, and junction box (J-Box) wiring topologies to accommodate any size system
- Install at head end or remote locations
- Rack (2U) mountable
- Thin, single PCB design allows the panel to be mounted either at the front or rear of an electronics rack, facing in or out
- Surge suppression available on all data and power connections
- ADACSNETDP model includes power supply for multiple panels
- Compatible with American Dynamics[®] MegaPower matrix switcher/ controller systems and Intellex[®] Digital Video Management Systems

The SensorNet/Manchester distribution panel amplifies either a SensorNet or Manchester protocol signal for multi-point dome control which provides the flexibility to operate efficiently in either protocol setting. With 16 output driver links (two connectors per link), the panel can accommodate home-run dome wiring, multiple daisy-chained links to domes, or J-Boxes.

The panel also includes inputs for two hosts allowing you to maintain a connection between both the primary and backup CPUs and the devices connected to the panel, thereby providing a redundant solution1. For the ultimate control, you can monitor signal activities on each channel. Installing the panel is easy, either at the head end or at remote locations and it can be used in place of a SensorNet J-Box when power is available for domes locally. The sleek, 2U design can easily be mounted at the front or rear of an electronics rack, facing in or out.

The panel is compatible with all versions of American Dynamics SpeedDome programmable dome cameras, Manchester receiver drivers, J-Boxes, and control systems that use SensorNet or Manchester protocols.

•	ECCOL EV : BOY ADDO ADD MAERICAN	:	HOST A		**************************************								14 14 19 19 19 19 19 19 19 19 19 19 19 19 19	15 ···· (11) (11) EL	
•	AD/men		14084.0	1	 1	 04144	E.L. 1499	Y IACO	<71	an D	- 11	 uou			

tyco



SPECIFICATIONS

Model Numbers

ADACSNETD	.SensorNet/Manchester Distribution Panel
ADACSNETDP	(with external power module) (with external power module)
Physical Dimensions (L x W x D) Body Length Weight Mounting	.481 x 87 x 34 mm (18.9 x 3.4 x 1.3 in) .445 mm (17.6 in) .0.75 kg (1.66 lbs) .Standard electrical rack (2U), EIA-310-D (19 in) IEC 60297-1 (482.6 mm) Wall mount
Electrical Power Source	External power module Certified limited power source required Multiple panels may be connected up to the maximum VA rating of the transformer
Input	.12 to 30 V DC or AC Isolation not required NEC Class 2
Power Consumption Diagnostic Indicators Power On/Heartbeat Noise Detect. Host A and B Receive Data . Channels 1-16 Receive Data	.8 VA .Green LED .Red LED .Yellow LED .Yellow LED
Protection	Internal primary current fuse Inrush limiting DC isolation
Cable to Transformer	.5 m (16.5 ft) 18 AWG (0.823 mm²), 3-conductor
Input Connector	Euro-style 3-pin removable plug 5.06 mm (0.2 in) terminal block
Surge Protection Transient Voltage Suppressors	S

PTC re-settled fuse protects transformer

Environmental

Operating Temperature......-10° to 50°C (14° to 122°F) Storage Temperature.....-40° to 70°C (-40° to 158°F) Relative Humidity......0 to 95% noncondensing

Regulatory

EMC	47 CFR, Part 15
	EN50130-4; EN55022
	EN61000-3-2; EN61000-3-3
	CISPR22
Safety	UL/IEC/EN/CSA C22.2.60950-1
Environmental	RoHS 2002/95/EC
	WEEE 2002/96/EC
	IP code X0

		1 1					
	SensorNet	Manchester					
Address Range	1 to 254	1 to 64					
Bit Rate	230.4 kbps	31 kbps					
Maximum Cable Segment ³	1 km (3,300 ft) if repeaters are used 1.5 km (5,000 ft) if repeaters are not used	1.5 km (5,000 ft)					
Maximum Loads	32 devices per cable segment	3 per run					
Cable Segment Repeaters	SensorNet J-Boxes, distribution panels	Distribution panels					
Topologies	Daisy chain, backbone, or star	Daisy chain					
Transmission Medium	Single non-polarized unshielded twisted pair UTP 22 AWG (0.326 mm²)	Single twisted pair 18 AWG (0.823 mm²) (Belden 8760), polarized, Shielded					
Connector	Euro-style 3-pin removable plug 3.5 mm (0.14 in) terminal block, Shield not used	Euro-style 3-pin removable plug 3.5 mm (0.14 in) terminal block					
Connector PIN Assignments	PIN 1 - S+ (orange wire) PIN 2 - S - (yellow wire) PIN 3 - Ground (Shield not used)	PIN 1 - S+ (black wire) PIN 2 - S- (white wire) PIN 3 - Ground (Shield used)					
Terminating Resistor	120 Ω , switch selectable	120 Ω , switch selectable					
Physical Layer	RS-485, transformer-isolated, 2-wire	RS-485, transformer-isolated, 2-wire					
Link Layer Communications	Bi-directional, half duplex	Simplex					
Controller Devices	ADMPCPU, ADTT16E Primary Touch Tracker, MegaPower 48 Plus, MegaPower LT, Intellex Digital Video Management System, and ADACSNET SensorNet USB Module	ADMPCPU, AD2091, MegaPower 48 Plus, and MegaPower 3200					
Secondary Devices	SpeedDome Series and American Dynamics receivers/drivers, distribution panels, J-Boxes, secondary Touch Tracker, and SensorNet I/O unit	SpeedDome Programmable Dome Cameras					

(2) Input voltage greater than 36 VDC or AC may damage equipment

(2) input voltage greater than so volto or AC may durinage equipment (3) The maximum cable segment distance shown is the total distance per ADACSNETD driver. The panel contains 16 drivers labeled 1 through 16 and each driver has two physical connectors on the front panel. If only one of the two connectors is used, the full distance can be applied to that connector. If both of the connectors are being used, the combined distance should not exceed the amount shown based upon wiring specified above.

Product offerings and specifications are subject to change without notice. Actual products may vary from photos. Not all products include all features. Availability varies by region; contact your sales representative. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.

© 2009 Tyco International Ltd. and its respective companies. All rights reserved. AD0117-DS-200903-R02-LT-EN

