

Power

AlphaNet™ Series

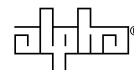
External DOCSIS® Analog Transponder



- Uses existing headend equipment
- Compatible with ANSI/SCTE HMS standards
- Supports multiple power supply models, multiple battery strings and a generator
- VoIP testing features
- System control

Alpha's External DOCSIS Transponder provides the ability for cable operators to manage network powering through the existing cable modem infrastructure. The power supply, multiple batteries and a generator can be monitored using a single transponder. Power supply status is transmitted to a management system over the network's DOCSIS cable modem channels through the existing CMTS. Bandwidth utilization is minimized by using standard SNMP (Simple Network Management Protocol) communications. Status monitoring information is compatible with ANSI/SCTE HMS standards.

Whether you are extending the life of your network backup power through battery balancing, managing QoS for VoIP services or monitoring for trouble areas during an AC power outage, the Alpha DOCSIS Network Power Monitor provides the tools to manage today's network power requirements with the ability to upgrade for tomorrow's needs.



DOCSIS Network Power Monitoring

General Specifications

General

Power Supplies Supported: XM2 (requires USM2 or USM2.5)
 XM (requires USM)
 Lectro ZTT, ZTT+, CPR
 DOCSIS Compatibility: Firmware DOCSIS 1.1
 Monitoring Protocol: SNMPv1
 Devices Monitored: Power Supply, Batteries and Generator
 (analog status approximates
 ANSI/SCTE 25-3 2002, formerly HMS 022)

RF Transmit/Receive

Tx Frequency Range: 5 to 42MHz
 Output Power: 8 to 58dBmV
 Channel Bandwidth: 6MHz
 Receive Center Freq Range: 91 to 857MHz
 (Standard, HRC, IRC channels)
 Input Level: -15 to 15dBmV

Monitored Parameters

Power Supply Data

Model:	XM2	XM	AM	ZTT Series	CPR
Major Alarm:	X	X	X	X	X
Minor Alarm:	X	X	X	X	X
Input Line Voltage Present:	X ¹	X	X	X ¹	X
Output Voltage:	X	X	X	X ¹	X
Battery Voltage:	X	X	X	X	X
Output Current:	X	X	X	X ¹	X
Standby/AC Line Fail:	X	X	X	X	X
Equipment/Test Fail:	X	X	X		
Enclosure Door Status:	X	X	X	X	X
Remote Test Control:	X	X	X	X	X

Notes:
 1 Requires optional cable assembly

Number of Battery String: One to Four of 36V or 48V
 Battery Data: Individual Battery Voltages
 Battery Compartment Temperature
 Major Alarm (Consists of: Low Oil
 Pressure, Engine Over-temp, Engine
 Over-speed, Crank Limit, Over Voltage,
 Low Fuel, Water Intrusion, Pad Shear,
 Gas Hazard, Test Fail)
 Minor Alarm (Consists of: Control Fail,
 Alternator Fail, Low Ignition Battery
 Voltage, Manual Bypass Active,
 Enclosure Door, DC Voltage Tolerance,
 Engine Disabled, Service Required)
 Engine Alarm (Consists of: Low Oil
 Pressure, Engine Over-temp, Engine
 Over-speed, Crank Limit, Engine Disabled)
 Gas Hazard
 Enclosure Alarm
 Test Status
 Enclosure Door
 Remote Test Control

Hardware

RF Cable Interface: F-connector, female, 75Ohm
 Local Interface: RJ-12, RS-232, 19.2kb,N,8,1
 Requires serial port adapter and PC with
 terminal emulation software
 (Hyper-Terminal recommended)
 LED Indicators: RF Transmit
 RF Receive/Link
 Transponder Ready
 Local Data
 Environmental: -40 to 65°C
 10 to 90% non-condensing humidity
 Emissions: EN55022 Class A and FCC Part 15 Class A
 (Installed in power supply enclosure system)
 Warranty: 2 years
 Dimensions (in/mm): 4.6D x 5.75W x 1.5H/116.8D x 146.1W x 38.1H

Management

NMS/EMS:

- Cheetah™ DOCSIS® Management Software
- Standard SNMP Management Tools

 HMS MIBs: Power Supply (ANSI/SCTE 38-4)
 Generator (ANSI/SCTE 38-6)
 Transponder (ANSI/SCTE 38-3)
 Alarm/Trap (ANSI/SCTE 38-1 and 38-2)

Ordering Information

XP-EDH2: External DOCSIS Transponder for XM2,
 XM, AM, Lectro ZTT compatible with VoIP
 Test Function (745-419-20)
 Order power supply interface cables and
 battery sense kit separately.
 CPR-EDH: External DOCSIS Transponder for
 Lectro CPR
 Power supply interface cable included.
 Order battery sense kit separately.
 XMZ-ICK: Interface cable for monitoring XM2 with
 USM2 or USM2.5 status interface (875-335-20)
 XM/AM-ICK: Interface cable for monitoring XM with USM
 and AM with RPM status interface (875-335-21)
 RPM factory configured for AM Communications
 ZTT-ICK: Interface cable for monitoring ZTT or ZTT+ (875-335-22)
 ZTT-ICKZ: Interface cable for monitoring ZTT+ (875-335-23)
 (pre 1998 versions)
 DCO-ADPTR: Local port adaptor (875-349-10)
Battery Sense Wire Kits
 XP-BSC-24-2-6: 1x24V, 6ft 875-401-20
 XP-BSC-24-2-6: 2x24V, 6ft 875-401-21
 XP-BSC-24-2-9: 1x24V, 9ft 875-401-22
 XP-BSC-24-4-9: 2x24V, 9ft 875-401-23
 XP-BSC-3-6: 1x36V, 6ft 874-842-21
 XP-BSC-3-9: 1x36V, 9ft 874-842-27
 XP-BSC-6-9: 2x36V, 9ft 874-842-28
 XP-BSC-4-6: 1x48V, 6ft 874-841-21
 XP-BSC-8-6: 2x48V, 6ft 874-841-20
 XP-BSC-4-9: 1x48V, 9ft 874-841-24
 XP-BSC-8-9: 2x48V, 9ft 874-841-25

Extended wire lengths available. Contact Alpha for ordering information.

For contact information visit www.alpha.com

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