

The Valley Group, Inc.

CAT-1™ Transmission Line Monitoring Systems

CATMASTER/D20 DATA SHEET



Functional Description

Together with the remote CAT-PAC units, the CATMaster/D20 provides the real-time data communications link between your CAT-1 systems and the EMS/SCADA system. Communication to the CAT-PAC's is accomplished via 900 MHz unlicensed spread spectrum radio. Communication of CAT-1 data to the EMS/SCADA system is provided via 4-wire Bell 202 analog modem output or straight RS232.

The CATMaster contains a universal power supply that may be supplied with 85 to 260 Vac or 110 to 340 Vdc. The D20 may be configured with one of four separate supply options (see specification section).

This is the ideal solution for any utility that must use a protocol which, due to memory limitations, will not work on the standard CATMaster.

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Component List:

CATMaster 19" / 483mm rack mount enclosure

D20 M 19" / 483mm rack mount enclosure

D20 Power supply unit

D20 1200 baud modem

900 MHz Spread Spectrum radio

10 dB Yagi antenna (omni-directional antennas available where required)

½" / 12.7mm Helix antenna cable 100ft / 30.48m (additional cable sizes/lengths available)

Protocol converter

Universal power supply

Specifications:

SCADA communications	Bell 202 compatible and straight RS232 passthrough
Communications protocols	Multiple (for more information, contact The Valley Group, Inc.)
Diagnostics	Radio, Protocol converter ¹ , and remote diagnostics ² via back panel
Communications (D20)	7 programmable RS-232 serial ports
Software	Radio Diagnostics, PROCOMM Plus
Power consumptions (D20)	Power consumption: 4.0 W typical, 7.4 W max.
Frequency stability	1.5 ppm
Network addresses (radio)	65,000
Power output (radio)	0.1 to 1.0 watt
Supply Voltage CATMaster option 1	85 to 260 Vdc, 110 to 340 Vac universal supply
CATMaster option 2	48 Vdc
D20 option 1	20 to 60 Vdc
D20 option 2	130 Vdc
D20 option 3	120 Vac
D20 option 4	90 to 260 Vdc, 90 to 260 Vac
RTU Addressing	Programmable
Output Signal Strength (SCADA communications)	0 db, -10dB option available
Shipping weight (incl. CATMaster, antenna, cable)	23 lbs / 10.4 kg

Dimensions:

See reverse

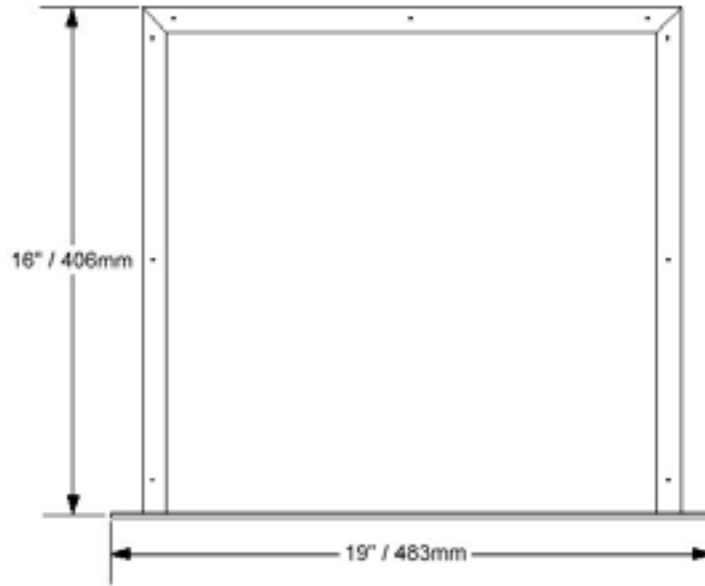
Notes:

1. VT100 emulation at 9600 baud, no parity, 8 data bits, one stop bit
2. VT100 emulation at 1200 baud, no parity, 8 data bits, one stop bit

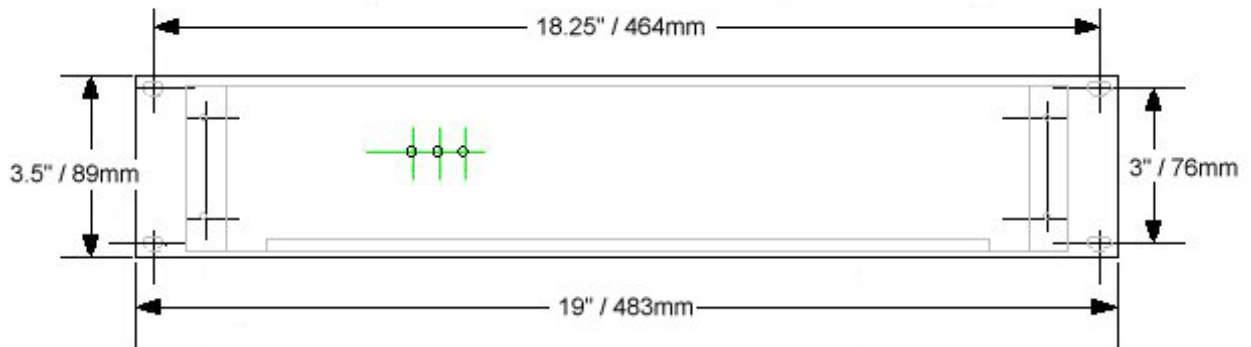
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CATMaster Dimensions



TOP VIEW



FRONT VIEW

	Width	Depth	Height
D20 Dimensions	19" / 483mm	10.5" / 267mm	5.25" / 133mm