



SPECIALISTS FOR ULTRA HIGH FREQUENCY

High Data Rate GOES Transmitter

THE VALCOM MODEL VGOES-HDR MEETS OR EXCEEDS NOAA/NESDIS SPECIFICATIONS FOR SELF-TIMED AND RANDOM MODE TRANSMISSIONS AT RATES OF 100 BITS PER SECOND (BPS), 300 BPS AND 1200 BPS. ALL 200 NORTH AMERICAN AND 33 INTERNATIONAL CHANNELS ARE SUPPORTED. AN INTEGRATED GPS RECEIVER MAKES TIMEKEEPING BOTH SIMPLE AND PRECISE.

CONFIGURATION USING THE STANDARD SERIAL INTERFACE IS QUICK AND EASY. USE ANY STANDARD TERMINAL EMULATION PACKAGE SUCH AS HYPERTERMINAL. PROVIDING THE ULTIMATE IN CONVENIENCE AND VERSATILITY, THE VGOES-HDR CAN EVEN BE CONFIGURED USING A PDA EQUIPPED WITH A SERIAL PORT.

THE VGOES-HDR IS IDEAL FOR USE IN VALCOM'S VEDAS II DATA LOGGER. IT IS ALSO COMPATIBLE AS A DIRECT REPLACEMENT TRANSMITTER FOR USE WITH MAJOR COMPETITORS' DATA LOGGERS. AN OPTION ENABLING THE VGOES-HDR TO OPERATE AS A STAND-ALONE DATA LOGGER, WITH SENSORS CONNECTED TO THE SDI-12 PORT, IS PLANNED FOR FUTURE VERSIONS.



FEATURES:

- ASCII SERIAL INTERFACE
- LOW POWER CONSUMPTION
- HIGH RELIABILITY WITH SELF DIAGNOSTICS
- GPS TIME-KEEPING
- WINDOWS OR LINUX COMPATIBLE
- AMPLE, NON-VOLATILE, INTERNAL MEMORY
- NOAA/NESDIS CERTIFIED
- DATA LOGGING IS A FUTURE OPTION

VGOES-HDR QUICK REFERENCE DATA

ELECTRICAL CHARACTERISTICS

TRANSMIT POWER	10 WATTS (MAX) @ 100 OR 300 BPS
	20 WATTS (MAX) @ 1200 BPS
COMMUNICATION MODES	SELF-TIMED AND RANDOM
INTERFACE PORT	RS-232 (9600 BAUD)
SDI-12 INPUT SENSOR PORT	UP TO 62 SENSORS - AN OPTION IN FUTURE VERSIONS
OPERATING VOLTAGE	10.5 TO 15 VDC (REVERSE VOLTAGE PROTECTED)
CURRENT CONSUMPTION (TYPICAL AT 12.5 VDC SUPPLY)	3 mA QUIESCENT, 100 mA DURING GPS FIX
	2.5 A, DURING 100 OR 300 BPS TRANSMISSION
	3.3 A, DURING 1200 BPS TRANSMISSION
CHANNEL SELECTIONS	1 TO 200 NORTH AMERICAN
	1 TO 33 INTERNATIONAL
RECOMMENDED ANTENNA	VALCOM CROSSED YAGI (10 dBi GAIN)
OUTPUT CONNECTOR	TNC TYPE

MECHANICAL CHARACTERISTICS

OVERALL DIMENSIONS	9" X 5.3" X 2" (22.9 CM X 13.5 CM X 5.1 CM)
WEIGHT	2.2 LBS (1.0 KG)
OPERATING TEMPERATURE	-40°F TO +122°F (-40°C TO +50°C)

UPGRADED FEATURES OF THE VGOES-HDR MODEL VERSUS THE 697-07 MODEL

	OLD 697-07 MODEL	NEW VGOES-HDR MODEL
DATA RATE TO SATELLITE	100 BPS	100, 300 OR 1200 BPS
SDI-12 DATA PORT	NONE	UP TO 62 SENSORS - AN OPTION IN FUTURE VERSIONS
EVENT LOGGING	NONE	REMEMBERS THE PREVIOUS 200 EVENTS (TYPICALLY)
SERIAL COMMUNICATION TO DATA LOGGER	USER SELECTABLE TO A MAXIMUM OF 1200 BAUD	9600 BAUD
CHANNEL SELECTIONS	1 TO 200 NORTH AMERICAN	1 TO 200 NORTH AMERICAN 1 TO 33 INTERNATIONAL
WEIGHT	4.5 LBS (2.0 KG)	2.2 LBS (1.0 KG)



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