



Voice Synthesizer

Make your datalogger
speech-capable

Overview

The COM320 is a voice-synthesizer modem that adds speech capability to a CR800, CR850, CR1000, or CR3000 datalogger. This capability allows the user to call a site for a spoken summary

of real-time or historical data. The COM320 can also act as a standard telephone modem.

Benefits and Features

- › Allows anyone to call a COM320-equipped site from any phone (including cellular) to receive a verbal report of current site conditions
- › Enables the datalogger to call you and recite a verbal warning if specified conditions occur
- › Reports specific conditions or allows selection of information by pressing numbers on a touch-tone telephone
- › Uses voice strings created with CRBasic code
- › Operates over a wide temperature range; extended temperature testing available
- › Supports communication rates up to 115.2 kbps between modem and logger. (In practice, data transmission through phone lines is generally constrained to 33.6 kbps.)
- › Comes with a speaker that aids troubleshooting in the field

Specifications

- › Standards: V.92, K56Flex, V.90, V.34, V.32bis, V32, V23, V22bis, V22, V.21, B212, B103
- › CE Compliant
- › Operating Voltage: 12 Vdc
- › Communication Rate Between Datalogger and COM320 (selected by user): 9600, 38400, 57600, 115200 bps
- › Operation: Full-duplex over standard analogue phone lines
- › Datalogger Interface: CS I/O, SDC6 (not changeable)
- › Dimensions: 16.5 x 2.5 x 6.6 cm (6.5 x 1.0 x 2.6 in)
- › Weight: 0.16 kg (0.35 lb)

Operating Temperature Range

- › Standard: -25° to +50°C
- › Extended: -55° to +85°C

Registration

- › FCC US: 3A4M508BSM2-T-W
- › IC 2377 A-SM2TW
- › TBR21

Current Drain

- › Quiescent: ~100 μ A
- › Active: ~35 mA

Required Equipment

- › Phone. Typically a touch-tone phone, but a rotary phone can be used to receive a verbal report only when the report does not require user participation.
- › Analogue phone line. Some DBX office phone lines are digital and cannot be used with the COM320
- › Surge protector at the datalogger site if one is not installed by the phone company.
- › COM320 voice-synthesizer modem (includes SC12 cable)
- › CR800, CR850, CR1000, or CR3000 datalogger
- › Environmental enclosure
- › Power supply, usually the datalogger's sealed rechargeable battery recharged with ac power or solar panel

Datalogger-to-computer communication requires, at the computer site, a PC or laptop running PC400, LoggerNet, or RTDAQ datalogger support software, #7026 serial cable or equivalent modem cable, and a user-supplied Hayes-compatible modem.

Air temperature is 20.15 degrees Celsius. Wind speed is 2.4 metres per second.



You can use any phone to call a COM320-equipped site and receive a verbal report of real-time conditions.

Ordering Information

Voice Phone Modem

COM320 Voice Synthesizer Modem

Temperature Range Options (choose one)

- ST** Tested for -25° to +50°C range.
- XT** Tested for -55° to +85°C range.

Country of Usage Options (choose one)

- US** Set for use in US or Canada
- UK** Set for use in the UK/Europe
- AU** Set for use in Australia.

Accessories

- #17648** USB Cable that is required to change the COM320 operating system or to change settings such as the number of rings before answering a call.

Standard Word List

The COM320 has a standard word list (see Word List brochure). Campbell Scientific may eventually add more words to the standard list. Customer-requested words for specific applications can also be included; consult the factory for details. The COM320's sentences are programmed using CRBasic code.

