Telephone Modem with Voice Synthesizer Model COM300

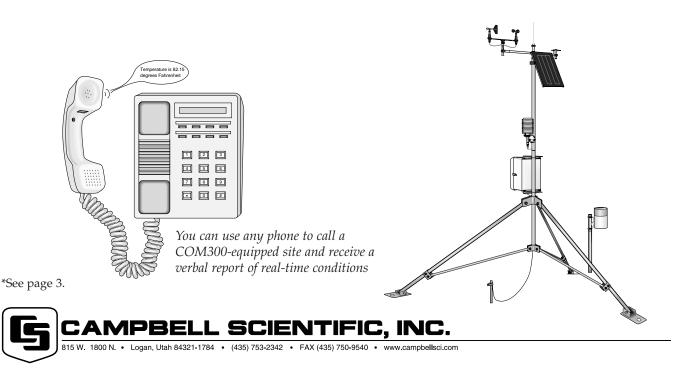
Campbell Scientific's COM300 voice-synthesizer modem provides a CR510, CR10(X), CR23X, or CR5000 datalogger with speech capability, thus enabling the user to call the site for a spoken summary of real-time or historical data. The COM300 can also act as a standard modem, with data transmit rates up to 9,600 bps.



A COM300's connections: The 9-pin serial port connects the COM300 to a datalogger via an SC12(R) cable. The RJ11C Modular Telephone Jack connects the COM300 to a surge-protected telephone line, or alternatively, the screw terminals (GND, RING, TIP) connect the COM300 to a phone line via a surge protector. Surge protectors are strongly recommended for sites where the phone company has not provided surge protection.

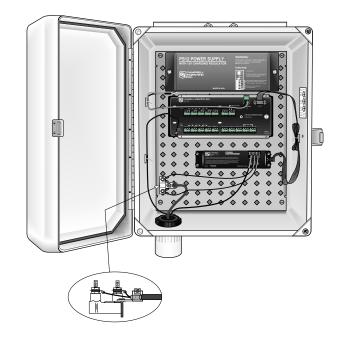
Features:

- Allows anyone to call a COM300-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 phone.
- Contains a large number of words on the COM300 chip for constructing the verbal reports; customized words and phrases are also available.*
- Operates over a wide temperature range: -25° to +50°C standard, -55° to +80°C, optional.



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 (i.e., pressing numbers to select information).
- Surge protector at the datalogger site if one is not installed by the phone company. CSI offers model 6362 (mounts inside enclosure) or model 4330 (same functionality as 6362 but without enclosure mounts).
- COM300 voice-synthesizer modem (includes SC12 cable and LoggerTalkTM vocabulary software)
- CR510, CR10(X), CR23X, or CR5000 (the CR10 requires a Library Special PROM)
- Environmental enclosure (typically ENC 12/14 or ENC 16/18).
- Power supply**



An ENC 12/14 enclosure housing a CR10X, PS12LA power supply, a COM300, an SC12 cable, and a surge protector. Sensor cabling and solar panel not shown.

Datalogger-to-computer communication also requires at the computer site an IBM-PC or compatible computer with our LoggerNet 2.0 or PC208(W) Support Software, an SC25PS or equivalent modem cable, and a user-supplied Hayes-compatible modem.

Specifications	200, 1200, 0/00 here
Baud rate:	300, 1200, 9600 bps
Typical current drain:	100 μA quiescent 140 mA active (voice transmitting)
Operating voltage:	12 Vdc
Operating temperature range:	-25° to +50°C standard, -55° to +80°C, optional
Dimensions:	5.2" x 1.7" x 3.6" (13.1 x 4.3 x 9.2 cm)
Weight:	0.75 lbs (0.34 kg)
FCC Compliance:	Equipment complies with FCC Rules Part 68 and requirements in Part 15 of FCC Rules for Class A computing devices.
FCC Registration No.:	B9QUSA-31402-MM-T
Standards:	Bell 212A, CCITT V.22, V.32bis

** For information on analyzing your system's power requirements, please request a copy of Campbell Scientific's Power Supply brochure or application note.

Standard COM300 Word List

Customer-requested words for specific applications can also be included; consult the factory for details. "Sentences" used by the COM300 are programmed using LoggerTalkTM, a software package included with COM300 purchase.

50MS A A-M ABOVE ACCUMULATE ACKNOWLEDGE ACRE ADDITION ADDITIONAL AGAIN AGO AIR ALARM ALL	CAMPBELL CAN CELSIUS CEMENT CENTI CENTRAL CHECK CHILL CHILLER CHLORIDE CHLORIDE CHLORINE CLOSED CODE CONDUCTIVITY CONTACT CORRECTED	EIGHT EIGHTEEN EIGHTY ELECTRON ELEVATION ELEVEN EMPTIED ENGINE ENTER EPROM EQUAL ERROR EVENT EXCEEDS EXTERNAL	GRADIENT GRAM GRASS GROUND H H H-2-S HAD HARDNESS HAS HASH HAVE HEAD HEAR HEAT	LAKE LAST LAYER LEVEL LINE LITER LOAD LOCATED LOCATION LOCATIONS LOGAN LOW
AMMONIUM	CROSSING	F	HELLO	MANAGEMENT
AND	CUBIC CURRENT	F	HERTZ	MAXIMUM
APPROACH ARE	CYCLES	FAHRENHEIT FAILED	HIGH HOLD	MEMORY MENDON
AREA		FAILURE	HOT	MENU
AT	D	FALL	HOUR	MERCURY
AVAILABLE	D	FALLING	HOURS	MESSAGE
AVERAGE	D-O DAM	FEET FIFTEEN	HUMIDITY HUNDRED	METER METERS
В	DAM DATA	FIFTY	HYDROLOGIC	MICRO
В	DATALOGGER	FIRST		MID
BACK-UP	DAY	FIVE	I	MID-MOUNTAIN
BAROMETRIC	DAYS	FLAG		MIDNIGHT MILES
BARS	DEGREES DELTA	FLAGS FLOW		MILLI
BATTERY BAY	DEPTH	FLUORIDE	INCHES INDEX	MILLION
BE	DEVIATION	FOLLOWING	ING	MINIMUM
BEAVER	DEW	FORTY	INPUT	MINUS
BEDS	DING	FOUR	INTAKE	MINUTE
BEHIND	DIRECTION DISCONNECT	FOURTEEN FREEZER	INTERNAL	MINUTES MODEM
BELOW BIG	DISTRICT	FREQUENCY	INTRUDER IRRADIANT	MOISTURE
BILLION	DIVERSION	FRIDAY	IRRIGATION	MONDAY
BLAST	DOCK	FROM	IS	MONITOR
BOILER	DOOR	FUEL	IT	MONTH
BUILDING	DOWN DRAW	0		MOUNT MOUNTAIN
BY	DURING	G	J, K	MULTIPLIER
С		GALLONS	J K	
C	E	GAS	KEY	Ν
C-0	E	GATE	KILO	Ν
CALCIUM	E-T-O	GAUGE	KILOBYTES	N-T-U
CALIBRATE	E08'S	GENERATOR	KNOTS	NEEDS
CALL			INO IO	
	EAST	GOING		NETWORK
CALLBACK CALLS			L L	

NINE	POUND	0	STREAMBED	
NINETEEN		S	-	U
NINETY	POWDER	S	SUMMIT	U
NITRATE	POWER	S-O-2	SUMP	ULTRAVIOLET
NITROGEN	PRECIPITATION	SAMPLE	SUNBURN	UNITS
	PREHEAT	SATURDAY	SUNDAY	UP
NO	PRESS	SCIENTIFIC	SURFACE	
NOON	PRESSURE	SECOND	SURFACTANCE	V
NORTH	PREVIOUS	SECONDS	SYSTEM	V
NOT	PROBE	SECURITY		
NUMBER	PRODUCT	SEDIMENT	т	V-O-C
•	PROGRAM	SELECTED	т.	VALUE
0	PROGRESS			VELOCITY
0	PUMP	SELECTION	TABLE	VERSION
OF	FONF	SENSOR	TAIL	VERTICAL
OFF	•	SENSORS	TEMPERATURE	VIA
OFFSET	Q	SET	TEN	VOLTAGE
OK	Q	SEVEN	TESTING	VOLTS
ON	QUALITY	SEVENTEEN	THANK	
ONE	QUIT	SEVENTY	THAT	W
OPEN		SHAFT	THE	W
OR	R	SIEMENS	THIRTEEN	
OUT	R	SIGNATURE	THIRTY	WARNING
OVERFLOW	R-P-M	SINCE	THIS	WAS
OVERRUNS		SITE	THOUSAND	WATER
OZONE	RACE	SIX	THREE	WATTS
	RADIAL	SIXTEEN	THRESHOLD	WE
Р	RADIATION			WEATHER
Р	RAIN	SIXTY	THRU	WEDNESDAY
P-H	RANGE	SKIING	THURSDAY	WELCOME
P-M	RATE	SMOG	TIME	WELL
P-S-I	REACHED	SNOW	TING	WEST
PACIFIC	READING	SODIUM	ТО	WHAT
PARAMETER	RECEIVED	SOIL	TODAY	WIND
PARTS	REFERENCE	SOLAR	TODAYS	WITH
PAST	RELATIVE	SONAR	TOGGLE	
PEAK	RESERVOIR	SOUTH	TOTAL	Χ, Υ
PENDING	RESET	SPEED	TRIGGERED	•
PER	RESIDUAL	SPILL	TUESDAY	Х
PERCENT	RETURN	SQUARED	TURBIDITY	Y
PHONE	REVISION	STAGE	TWELVE	YEAR
PLANT PLEASE	RISING	STANDARD	TWENTY	YESTERDAY
		STAR	TWO	YOU
POINT POND	RIVER	STATES		YOUR
POND	ROAD	STATION		
PORTS	ROOM			Z
PORTS	RUN	STATUS		Z
	RUNOFF	STORM		ZERO

