# Telephone Modem with Voice Synthesizer Model COM300

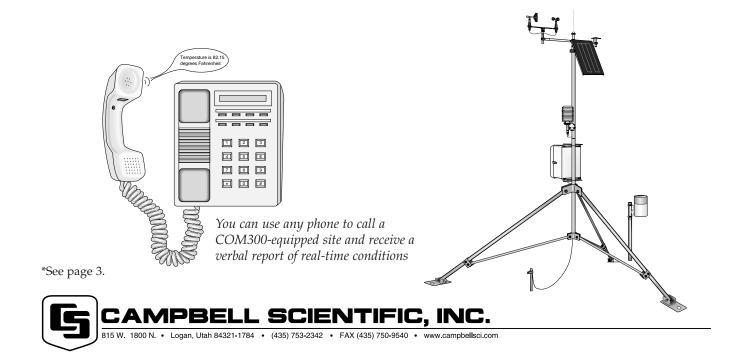
Campbell Scientific's COM300 voice-synthesizer modem provides a CR510, CR10(X), CR23X, or CR5000 datalogger with speech capability, thus enabling the user to call the site for a spoken summary of real-time or historical data. The COM300 can also act as a standard modem, with data transmit rates up to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

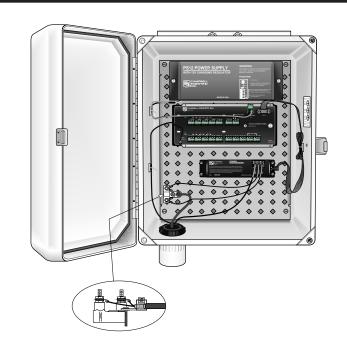
#### Features:

- 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 LoggerTalk<sup>TM</sup> 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**

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

<sup>\*\*</sup> 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 LoggerTalk  $^{\text{TM}}$ , a software package included with COM300 purchase.

| 1 0          | 0 00         | 1 0        | 1           |              |
|--------------|--------------|------------|-------------|--------------|
| 50MS         | CAMPBELL     | EIGHT      | GRADIENT    | LAKE         |
|              | CAN          | EIGHTEEN   | GRAM        | LAST         |
| Α            | CELSIUS      | EIGHTY     | GRASS       | LAYER        |
| A            | CEMENT       | ELECTRON   | GROUND      | LEVEL        |
| A-M          | CENTI        | ELEVATION  | 0.100112    | LINE         |
| ABOVE        | CENTRAL      | ELEVEN     | Н           | LITER        |
| ACCUMULATE   | CHECK        | EMPTIED    | н ''        | LOAD         |
| ACKNOWLEDGE  | CHILL        | ENGINE     | H-2-S       | LOCATED      |
| ACRIOWLEDGE  | CHILLER      | ENTER      | HAD         | LOCATION     |
| ADDITION     | CHLORIDE     | EPROM      | HARDNESS    | LOCATIONS    |
| ADDITION     | CHLORINE     | EQUAL      | HAS         | LOGAN        |
| AGAIN        | CLOSED       | ERROR      | HASH        | LOW          |
| AGO          | CODE         | EVENT      | HAVE        | 2011         |
| AIR          | CONDUCTIVITY | EXCEEDS    | HEAD        | M            |
| ALARM        | CONTACT      | EXTERNAL   | HEAR        | M            |
| ALARIVI      | CORRECTED    |            | HEAT        | M-R-P        |
| AMMONIUM     | CROSSING     | F          | HELLO       | MANAGEMENT   |
| AND          | CUBIC        | F .        | HERTZ       | MAXIMUM      |
| APPROACH     | CURRENT      | FAHRENHEIT | HIGH        | MEMORY       |
| ARE          | CYCLES       | FAILED     | HOLD        | MENDON       |
| AREA         | 0.0220       | FAILURE    | HOT         | MENU         |
| AT           | D            | FALL       | HOUR        | MERCURY      |
| AVAILABLE    | D            | FALLING    | HOURS       | MESSAGE      |
| AVERAGE      | D-O          | FEET       | HUMIDITY    | METER        |
| AVENAGE      | DAM          | FIFTEEN    | HUNDRED     | METERS       |
| В            | DATA         | FIFTY      | HYDROLOGIC  | MICRO        |
|              | DATALOGGER   | FIRST      | TITOROLOGIO | MID          |
| B<br>BACK-UP | DAY          | FIVE       | 1           | MID-MOUNTAIN |
| BAROMETRIC   | DAYS         | FLAG       |             | MIDNIGHT     |
| BARS         | DEGREES      | FLAGS      | IN          | MILES        |
| BATTERY      | DELTA        | FLOW       | INCHES      | MILLI        |
| BAY          | DEPTH        | FLUORIDE   | INDEX       | MILLION      |
| BE           | DEVIATION    | FOLLOWING  | ING         | MINIMUM      |
| BEAVER       | DEW          | FORTY      | INPUT       | MINUS        |
| BEDS         | DING         | FOUR       | INTAKE      | MINUTE       |
| BEHIND       | DIRECTION    | FOURTEEN   | INTERNAL    | MINUTES      |
| BELOW        | DISCONNECT   | FREEZER    | INTRUDER    | MODEM        |
| BIG          | DISTRICT     | FREQUENCY  | IRRADIANT   | MOISTURE     |
| BILLION      | DIVERSION    | FRIDAY     | IRRIGATION  | MONDAY       |
| BLAST        | DOCK         | FROM       | IS          | MONITOR      |
| BOILER       | DOOR         | FUEL       | IT          | MONTH        |
| BUILDING     | DOWN         |            |             | MOUNT        |
| BY           | DRAW         | G          | J, K        | MOUNTAIN     |
|              | DURING       | G          | J           | MULTIPLIER   |
| С            |              | GALLONS    | K           |              |
| С            | E            | GAS        | KEY         | N            |
| C-O          | E            | GATE       | KILO        | N            |
| CALCIUM      | E-T-O        | GAUGE      | KILOBYTES   | N-T-U        |
| CALIBRATE    | E08'S        | GENERATOR  | KNOTS       | NEEDS        |
| CALL         | EAST         | GOING      |             | NETWORK      |
| CALLBACK     | EASTERN      | GOOD       | L           | NEW          |
| CALLS        | EFFLUENT     | GOODBYE    | L           | NEXT         |
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| P RADIATION SIXTEEN THRESHOLD WEATHER P RAIN SIXTY THRU WEATHER P-H RANGE SKIING THURSDAY WELCOME P-M RATE SMOG TIME WELL P-S-I REACHED SNOW TING WEST PACIFIC READING SODIUM TO WHAT PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS WITH PAST RELATIVE SONAR TOGGLE PEAK RESET SPEED TRIGGERED X PERCENT RESIDUAL SPILL TUESDAY Y PHONE RETURN SQUARED TURBIDITY Y PHONE RETURN SQUARED TURBIDITY Y PLANT REVISION STAGE TWELVE YEAR PLANT REVISION STAGE TWELVE YEAR PLANT REVISION STAGE TWELVE YESTERDAY POINT RIVER STAR TWO YOUR POND ROAD STATES PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM   | OZUNE     |               |           |             |             |
| P 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 TO WHAT PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS PAST RELATIVE SONAR TOGGLE PEAK RESERVOIR SOUTH TOTAL PENDING RESET SPEED TRIGGERED PER RESIDUAL SPILL TUESDAY Y PHONE RETURN SQUARED TURBIDITY PHONE RETURN SQUARED TURBIDITY PHONE REVISION STAGE TWELVE YEAR PLANT REVISION STAGE TWELVE PLANT REVISION STARR TWO POINT RIVER STAR TWO PORTS RUN STATUS POTASSIUM RUNOFF STORM  POTASSIUM RUNOFF STORM  THRU WEDNESDAY WELCOME WELL WELL WELL WELL WELL WELL WELL WE  | -         |               |           |             |             |
| P-H RANGE SKIING THURSDAY WELCOME P-M RATE SMOG TIME WELL P-S-I REACHED SNOW TING WEST PACIFIC READING SODIUM TO WHAT PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS PAST RELATIVE SONAR TOGGLE PEAK RESERVOIR SOUTH TOTAL PENDING RESERVOIR SOUTH TOTAL PERCENT RESIDUAL SPILL TUESDAY Y PHONE RETURN SQUARED TURBIDITY Y PHONE RETURN SQUARED TURBIDITY Y PLANT REVISION STAGE TWELVE YEAR PLANT REVISION STAGE TWELVE YEAR POINT RIVER STAR TWO PORTS RUN STATION PORTS RUN STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM  VELCOME WELL WELCOME WELL WELL WELL WELL WELL WELL WELL WE  |           |               |           |             | WEATHER     |
| P-M RATE SMOG TIME WELL P-S-I REACHED SNOW TING WEST PACIFIC READING SODIUM TO WHAT PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS PAST RELATIVE SONAR TOGGLE PEAK RESERVOIR SOUTH TOTAL PENDING RESERVOIR SPILL TUESDAY Y PHONE RETURN SQUARED TURBIDITY PHONE RETURN SQUARED TWELVE YEAR PLANT REVISION STAGE TWELVE YESTERDAY PLEASE RISING STANDARD TWENTY YOU POINT RIVER STAR TWO PORTS RUN STATION PORTS RUN STATION PORTS RUN STATUS POTASSIUM RUNOEF STORM  TIME WELL WELL WELL WELL WELL WELL WELL YEST WELCOME WELL WELL WELL YEST WELCOME WELL WELL WEST WELCOME WELL WELL YEST WELL X, Y  Z Z  |           | RAIN          |           |             | WEDNESDAY   |
| P-M RATE SMOG TIME WELL P-S-I REACHED SNOW TING WEST PACIFIC READING SODIUM TO WHAT PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS PAST RELATIVE SONAR TOGGLE PEAK RESERVOIR SOUTH TOTAL PENDING RESET SPEED TRIGGERED PER RESIDUAL SPILL TUESDAY PHONE RETURN SQUARED TURBIDITY PHONE RETURN SQUARED TURBIDITY PLANT REVISION STAGE TWELVE PLANT REVISION STAGE TWELVE POINT RIVER STAR TWO POND ROAD STATES PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFE STORM  VELL WEST WELL WEST WHAT VID WEST WAT VID WEST WITH VID WEST VID WEST VID WEST VID WEST VID  | P-H       | RANGE         |           |             | WELCOME     |
| P-S-I REACHED SNOW TING WEST PACIFIC READING SODIUM TO WHAT PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS PAST RELATIVE SONAR TOGGLE PEAK RESERVOIR SOUTH TOTAL PENDING RESET SPEED TRIGGERED PER RESIDUAL SPILL TUESDAY Y PHONE RETURN SQUARED TURBIDITY PHONE RETURN SQUARED TURBIDITY PLANT REVISION STAGE TWELVE PLANT REVISION STAGE TWELVE PLANT RIVER STAR TWO POINT RIVER STAR TWO PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM  TOMAT WHAT WHAT WHAT WHAT WHAT WHAT WHAT WH  | P-M       | RATE          | SMOG      | TIME        |             |
| PACIFIC READING SODIUM TO WHAT PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS PAST RELATIVE SONAR TOGGLE PEAK PENDING RESERVOIR SOUTH TOTAL PER RESET SPEED TRIGGERED PER RESIDUAL SPILL TUESDAY PHONE RETURN SQUARED TURBIDITY PHONE REVISION STAGE TWELVE PLANT REVISION STAGE TWELVE PLANT RIVER STANDARD TWENTY POINT RIVER STAR TWO PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFE STORM  TO WHAT WHAT WHAT WHAT WHAT WHAT WIND WHAT WHAT WHAT WIND WHAT WHAT WIND WHAT WHAT WHAT WIND WHAT WIND WHAT WIND WHAT WIND WHAT WITH  X, Y  | P-S-I     | REACHED       | SNOW      | TING        |             |
| PARAMETER RECEIVED SOIL TODAY WIND PARTS REFERENCE SOLAR TODAYS PAST RELATIVE SONAR TOGGLE PEAK RESERVOIR SOUTH TOTAL PENDING RESET SPEED TRIGGERED PER RESIDUAL SPILL TUESDAY PHONE RETURN SQUARED TURBIDITY PHONE REVISION STAGE TWELVE PLANT REVISION STAGE TWELVE PLANT RIVER STAR TWO POINT RIVER STAR TWO PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM  WHAT WHAT WHAT WIND WIND WITH WIND WITH  WIND WITH  WIND WITH  WIND WITH  VA Y V Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y  | PACIFIC   |               | SODIUM    | ТО          |             |
| PARTS PAST PAST PEAK PEAK PENDING PER PER PER PERCENT PHONE PLANT PLEASE POINT POINT POND PORT PORTS PORTS PORTS PORTS PORTS PORTS POTASSIUM PAST REFERENCE SOLAR TODAYS WITH TOTAL X, Y  YEAR  YESTERDAY  YOU  YOUR  POND PORTS ROOM STATION PORTS RUN STATION PORTS RUN STATUS POTASSIUM RUNOFE STORM  | PARAMETER |               |           | TODAY       |             |
| PAST PEAK PEAK PENDING PENDING PER   |           |               |           |             |             |
| PEAK PENDING PENDING PER PER PER PER PER PERCENT PHONE PLANT PLANT PLEASE POINT POND POND POND POND PORT PORT PORTS POTASSIUM PENDING RESERVOIR SOUTH TOTAL X, Y  POTAL  X, Y  |           |               |           |             | WITH        |
| PENDING PER PER PER RESET SPEED TRIGGERED X Y PERCENT PERCENT PHONE PLANT PLANT PLEASE POINT POND POND POND POND PORT PORT PORTS POTASSIUM RUNOFE  RESERVOIR SOUTH TOTAL X, Y  X, Y  X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y   |           |               |           |             |             |
| PER RESET SPEED TRIGGERED X PERCENT RESIDUAL SPILL TUESDAY Y PHONE RETURN SQUARED TURBIDITY PLANT REVISION STAGE TWELVE YESTERDAY PLEASE RISING STANDARD TWENTY POINT RIVER STAR TWO YOU POND ROAD STATES PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM  X Y Y Y Y Y Y Y Y Y Y Y O Y Y O Y  Z Z  |           | RESERVOIR     |           |             | X. Y        |
| PERCENT RESIDUAL SPILL TUESDAY PHONE RETURN SQUARED TURBIDITY PLANT REVISION STAGE TWELVE PLEASE RISING STANDARD TWENTY POINT RIVER STAR TWO POND ROAD STATES PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM  SUBSTITUTE TO STORM  Y YEAR YEAR YESTERDAY YOU YOU YOUR  Z Z  |           | RESET         |           |             | •           |
| PHONE RETURN SQUARED TURBIDITY PHONE REVISION STAGE TWELVE PLANT REVISION STAGE TWELVE PLEASE RISING STANDARD TWENTY POINT RIVER STAR TWO POND ROAD STATES PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM   |           | RESIDUAL      | SPILL     | TUESDAY     |             |
| PLANT REVISION STAGE TWELVE PLEASE RISING STANDARD TWENTY POINT RIVER STAR TWO POND ROAD STATES PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM  TEAR YESTERDAY YOU YOU YOUR  YOUR  Z  |           | RETURN        | SQUARED   | TURBIDITY   |             |
| PLEASE RISING STANDARD TWENTY YOU YOU YOUR POINT RIVER STAR TWO YOUR POND ROAD STATES  PORT ROOM STATION STATUS  POTASSIUM RUNOFF STORM  Z  Z  |           |               | STAGE     | TWELVE      |             |
| POINT RIVER STAR TWO YOU YOUR POND ROAD STATES PORT ROOM STATION STATUS POTASSIUM RUNOFF STORM Z   |           |               |           |             | YESTERDAY   |
| POND ROAD STATES PORT ROOM STATION PORTS RUN STATUS POTASSIUM RUNOFF STORM Z   |           |               |           |             | YOU         |
| POND ROAD STATES  PORT ROOM STATION  PORTS RUN STATUS  POTASSIUM RUNOFF STORM  Z   | _         |               |           | 1 4 4 0     | YOUR        |
| PORTS RUN STATUS Z POTASSIUM RUNOFF STORM Z  |           | -             |           |             |             |
| POTASSIUM RUNOFF STORM Z   |           | ROOM          |           |             | 7           |
| RIMUFF OTOTAL  |           | RUN           | STATUS    |             |             |
| ZERO   | POTASSIUM | RUNOFF        | STORM     |             |             |
|  |           |               |           |             | ZERO        |