



C3I-W WIRELESS MODEM INSTALLATION MANUAL

THE C3IW IS A WIRELESS VERSION OF THE C3I FAMILY OF PRODUCTS WHICH IS DESIGNED TO REMOTELY READ ELECTRICAL, GAS, AND WATER METERS AS WELL AS PERFORM LOAD MANAGEMENT FUNCTIONS. THE C3IW USES TELEMETRY FREQUENCIES IN THE VHF BAND TO ACCOMPLISH THIS.

THE C3IW CAN READ UP TO 4 METERS AND CONTROL UP TO 3 APPLIANCES.

Load Management

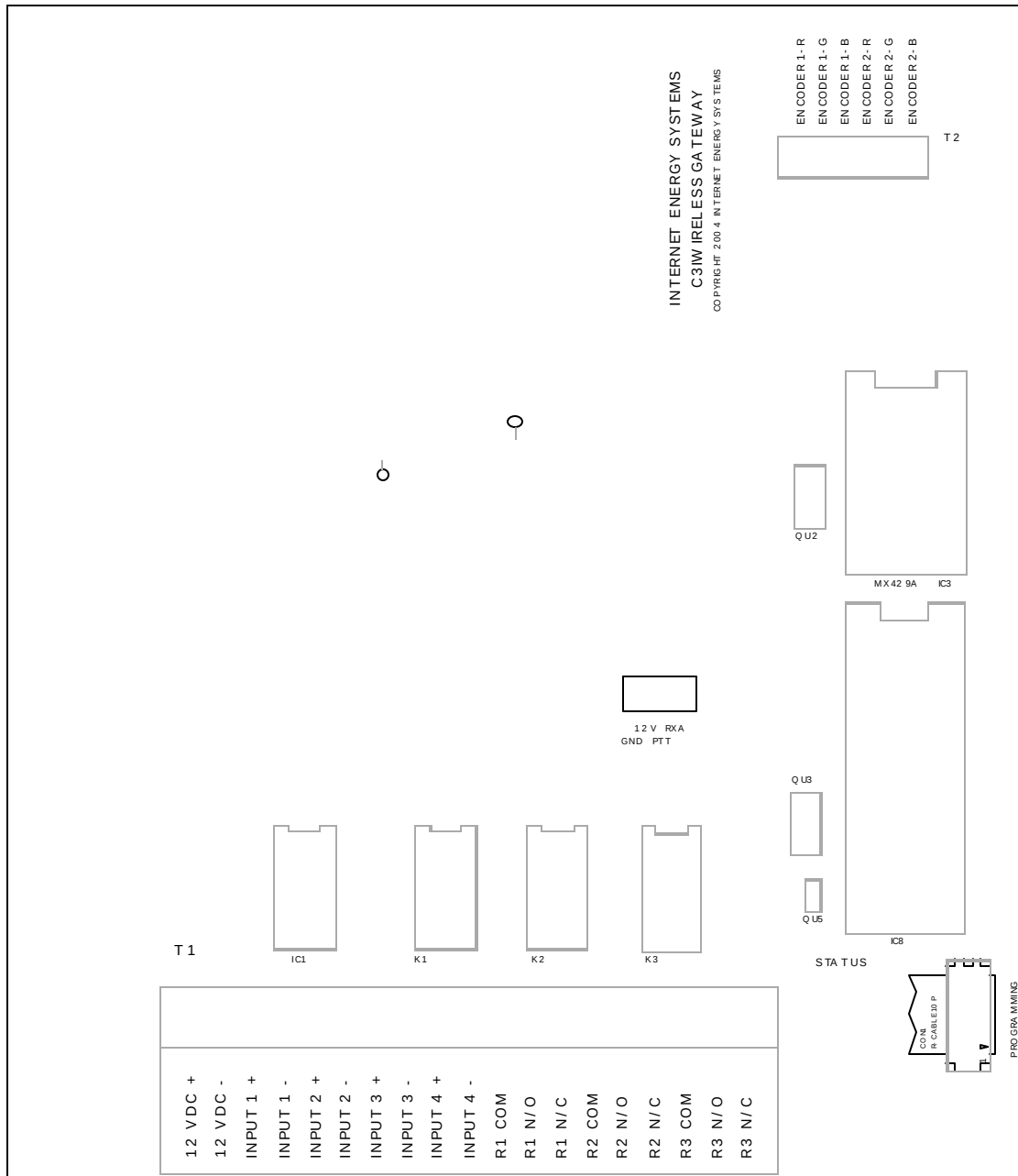
WHEN AN ELECTRICAL PEAK IS DETECTED AT A SUBSTATION, A DESIGNATED CODE IS SENT OUT TO A GROUP OF C3I GATEWAYS. IN TURN, THE GATEWAYS WILL SHUT OFF A DESIRED ELECTRICAL APPLIANCE FOR A SHORT PERIOD OF TIME VIA THE ONBOARD RELAY CONTROL CIRCUIT.

Meter Reading

THE C3I GATEWAY CAN ALSO READ DATA FROM ELECTRICAL, WATER, GAS, OR ANY OTHER TYPE OF METERING WITH CORRECT INTERFACING. WHEN METERS ARE TO BE READ, THE SPECIFIC GATEWAY WILL BE POLLED BY THE BASE UNIT, REQUESTING ITS METER READING DATA. THE GATEWAY WILL THEN SEND ITS DATA BACK IN THE FORM OF DATA PACKET.

THE C3IW COMES INSTALLED IN WEATHERPROOF ENCLOSURE.

T1 BAR CONNECTOR CONTAINS ALL INPUTS AND RELAY OUTPUTS ALONG WITH DC INPUT. ALL POSITIONS ARE CLEARLY MARKED FOR EASY INSTALLATION AS SHOWN BELOW:



12 VDC + : CONNECTS TO POWER SOURCE 10 TO 25 VOLTS

12 VDC - : POWER SOURCE GROUND

INPUT 1 + : TO METER 1 PULSE ENCODER

INPUT 1 - : TO METER 1 PULSE ENCODER

INPUT 2 + : TO METER 2 PULSE ENCODER

INPUT 2 - : TO METER 2 PULSE ENCODER

INPUT 3 + : TO METER 3 PULSE ENCODER

INPUT 3 - : TO METER 3 PULSE ENCODER

INPUT 4 + : TO METER 4 PULSE ENCODER

INPUT 4 - : TO METER 4 PULSE ENCODER

R1 COM : RELAY 1 COMMON

R1 N/O : RELAY 1 NORMALLY OPEN

R1 N/C : RELAY 1 NORMALLY CLOSED

R2 COM : RELAY 2 COMMON
R2 N/O : RELAY 2 NORMALLY OPEN
R2 N/C : RELAY 2 NORMALLY CLOSED
R3 COM : RELAY 3 COMMON
R3 N/O : RELAY 3 NORMALLY OPEN
R3 N/C : RELAY 3 NORMALLY CLOSED

WARNING: This device may only be installed and serviced by authorized utility personnel. Access to consumers should be denied with an appropriate utility lock or seal.

NOTICE: This equipment complies with the FCC RF Exposure Limits. A minimum of 20 centimeters (8 inches) separation between the device and the user and all other persons should be maintained.

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

SPECIFICATIONS

FREQUENCY COVERAGE

154.390, 154.45625, 154.46375, 154.47125, 154.47875, 173.20375, 173.21, 173.2375, 173.2625, 173.2875, 173.3125, 173.3375, 173.3625, 173.39, 173.39625

INPUT VOLTAGE

MIN 10V

MAX 25V

MAX CURRENT DRAW

300MA

PULSE INPUT VOLTAGE

MIN 2.5V

MAX 20V

APPROXIMATE CPU EPROM WRITE LIFE
10 YEARS

RECEIVER

IF FREQUENCY

SINGLE CONVERSION 455KHZ

SENSITIVITY

12DB SINAD @ 1.4UV

TRANSMITTER

OUTPUT POWER

90MW

DEVIATION

+ - 2.5KC MAX