

DATA CONCENTRATOR



Innovative Solution for Power Measurement



ICD DCU 1000 is an advanced Data Concentrator that enables Data collection from Standard MODBUS-RTU Slaves and transfers the data to DCU 1000 Server / Clients. The Modbus RTU Slave settings and register address mappings can be downloaded into the device through menu driven user friendly windows based software.

Apart from collecting the data from Modbus slaves, Digital I/O (4 Channel) and Analog Inputs (2 Channel) are also available as an optional feature. All the above Features make the data concentrator as an ideal device to be used in substation monitoring systems. Numeric relays, Multi function meters, Annunciators and various data collection systems using DCU 1000.

TECHNICAL SPECIFICATION

GENERAL

PROCESSOR	: ARM926EJ-S ARM core
SPEED	: 190 MHz
RAM (VOLATILE STORAGE)	: 32 MB
FLASH (NON VOLATILE STORAGE)	: 256 MB
OPERATING SYSTEM	: Embedded Linux Kernel Version 2.6
SYSTEM PROTOCOLS	: TCP/IP, UDP/IP, SMTP, POP, HTTP, FTP
NETWORK MANAGEMENT	: SNMP Support for NMS
SECURITY	: NERC/CIP Compliant, SSL Tunnel, SSHv2
VPN	: SSL based VPN with Blowfish /AES/3DES
LOGIC	: AND/OR/NOT Logic Support

USER INTERFACE

DISPLAY	: 2 Row x 16 Character LCD with backlight
KEY	: 5 Keys provided for various settings and status viewing
RTU CONFIGURATION	: Ethernet port available. Through this port settings through user friendly menu driven software

ETHERNET PORT

PORTS	: 1 x RJ45
PHYSICAL LAYER	: Single 10/100 Base T
DATA RATE	: 10/100 Mbps (auto-sensing)
MODE	: Full or half duplex (auto-sensing)
CONNECTOR	: RJ-45

SERIAL PORT

PORTS	: 2 x RS485 interfaces
TYPE OF PROTOCOL	: MOD-BUS RTU
BAUD RATE	: Programmable up to 19200 bps
MAXIMUM DISTANCE OF COMMUNICATION	: Up to 1.2kms
MODE	: Half Duplex
NUMBER OF RTU's SUPPORTED	: 30 per Port

NUMBER OF POINTS SUPPORTED

DCU 1000. SPA Bus	: Up to 2,000 points
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PROTOCOLS SUPPORTED

PROTOCOLS SUPPORTED	: DCU1000 Client / Server, Modbus RTU
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ENVIRONMENTAL

OPERATING TEMPERATURE	: -40°C to +85°C
RELATIVE HUMIDITY	: 5% to 90% RH non-condensing
ETHERNET ISOLATION	: 1500VAC min per IEEE802.3/ANSI X3.263

POWER REQUIREMENTS

POWER INPUT	: 90 - 270V AC RMS
POWER CONSUMPTION	: 8VA

DIMENSIONS

LENGTH	: 150.00mm
WIDTH	: 115.00mm
HEIGHT	: 54.00 mm



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