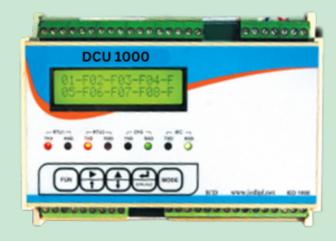


DATA CONCENTRATOR



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 backlit
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



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.

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

PROTOCOLS SUPPORTED

PROTOCOLS SUPPORTED : DCU1000 Client / Server, Modbus RTU

ENVIRONMENTAL

OPERATING TEMPERATURE : -40° C to $+85^{\circ}$ C

RELATIVE HUMIDITY : 5% to 90% RH non-condensing

ETHERNET ISOLATION : 1500VAC min per IEEE802.3/ANSI X3.263

POWER REQUIREMENTS

POWER INPUT : 9Ø – 27ØV AC RMS

POWER CONSUMPTION : 8VA

DIMENSIONS

 LENGTH
 :
 150.00mm

 WIDTH
 :
 115.00mm

 HEIGHT
 :
 54.00 mm



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