Data Concentrator Unit / Data Gateway

DATA CONCENTRATOR

ICD

COM-1 01-F02-F
03-F04-F05-F06-F

RTU1 TXD RXD RTU2 TXD RXD CFG TXD RXD PC TXD RXD

FUN

DC1000U

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L DY N   DUMMY   D+ D- GND   D+ D- GND
COM-1 RS485 I/P   COM-2 RS485 I/P

MODEL - DCU1000UE

About the ICD -DCU1000UE

ICD DCU 1000 is an advanced Data Concentrator/ Data Gateway that enables Data collection from Standard MODBUS-RTU Slaves Energy Meters/ Instruments and transfers the data to Servers / Client PC networks.

15+
Countries Served

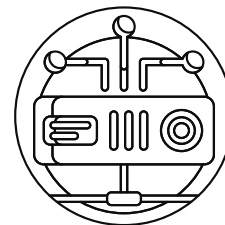## 5000+
Happy Clients

40+
4 Decades in Industry

The Modbus RTU Slave settings and register address mappings can be downloaded Into the device through menu-driven, user-friendly, and **Windows-based** software.

Apart from collecting the data from Modbus slaves, It Reads other formats from Digital 1/0 (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.
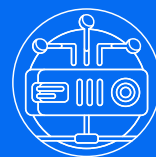
MODEL - DCU1000UE

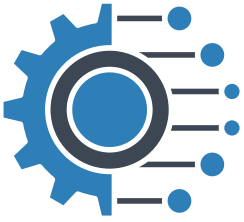|	
TYPE	: DATA CONCENTRATOR
MODEL	: DC1000UE
DISPLAY	: 2 Row x 16 Character LCD with backlit
CHARACTER SIZE	: Min. 4.35(H) x 2.95(W) mm
NO. OF COMMUNICATION INPUT PORTS	: 1 No's Optically Isolated RS485 Port / 2 No's Optically Isolated RS485 Port
NO. OF RTU SUPPORTED	: COM Port-1 (Supporting 30 RTU) / COM Port-2 (Supporting 30 RTU)
TYPE OF PROTOCOL INPUT	: MODBUS-RTU
RTU BAUD RATE	: 4800 / 9600 / 19200 /115200 bps (Selectable)
MAXIMUM DISTANCE OF COMMUNICATION FOR RTU	: Up to 1000 Meter
NO. OF COMMUNICATION OUTPUT PORTS	: 1 No Single Ethernet Port / Dual Ethernet Port
TYPE OF PROTOCOL OUTPUT	: MODBUS TCP/IP
LCD POWER SAVE MODE	: Provided when no key is operated for 3 minutes the LCD Backlit is switched OFF to save power and to enhance the life of LCD. The backlit is switched ON when any key is Pressed
PARAMETER DISPLAYED	: Communication status None/Fail/Good is displayed

KEY FUNCTIONS

KEY PAD	5 Keys namely Fun, Shift, Increment, Enter and Mode used for Program mode setting and Run mode selection
PROGRAM MODE PARAMETERS	Device address and RTU configurations
UNAUTHORIZED PERSON ENTRY PROTECTION	Provided through Password Facility
SETTING AND STORAGE	EERAM
COMM. INDICATION	4 sets of RXD and TXD LED's are provided for each Communication Ports to indicate the traffic status
COMM. NETWORK TYPE	Multi-drop Configuration
ISOLATION OF DEVICE FROM THE NETWORK	Provided, Isolated during Power and Device failure
AMBIENT TEMPERATURE	45 - 55°C
AUXILIARY POWERSUPPLY	90 - 265V AC
BOX DIMENSION	150(W) x115 (H) x54 (D) mm
ENCLOSURE	Powder coated Aluminum Case
MOUNTING	Din Rail
WEIGHT	550gms (Approx)

Unique Product Features

- **Can Connect 30/60 Instruments**
- **High-Speed Data Delivery**
- **Field Programmable (Parameter Wise & Instrument Wise)**
- **Can Integrate Energy Meters, Water / Steam Flow Meters, Air Flow Sensors, PID Controllers, Gas Sensors, Process Controllers & PLC**
- **Single & Dual Ethernet Output Options Available**

Applications

Energy Management System

Process Monitoring System

IOT Application Interface

Ethernet Protocol Data Conversion Application

Energy Billing System
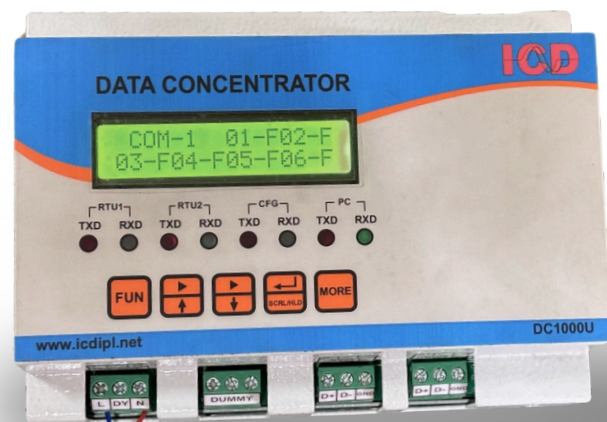
Building Management System

Industrial Controls and Drives
India Pvt. Ltd. (ICDIPL)

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DATA CONCENTRATOR

COM-1 01-F02-F
03-F04-F05-F06-F

RTU1 TXD RXD RTU2 TXD RXD CFG TXD RXD PC TXD RXD

FUN | ▶ | ▼ | SCRL/HLD | ↵ | MORE

www.icdipl.net   DC1000U

L DY N   DUMMY   D+ D-   D+ D-

MODEL - DCU1000UE