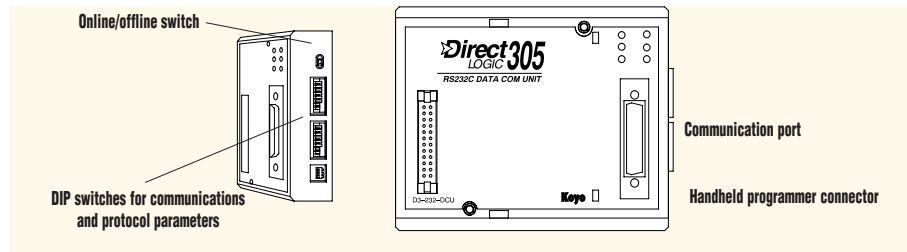# Data Communications Units

D3-232-DCU

The DL305 Data Communications Unit (DCU) is a general purpose communications interface for the DL305 family. This unit is used with the D3-330 CPU for the following reasons:

- As a general purpose communications port to connect a personal computer, operator interface, etc.
- Network interface to a DirectNET network.
- The DCU is not necessary for the D3-340 or D3-350 CPUs since they have built-in communication ports.

Specifications	
Unit Type	Intelligent
Units per CPU	One, direct connect to CPU
Communications	RS232C with D3-232-DCU, Baud rate selectable from 300 to 19.2K baud. Odd or No parity. HEX or ASCII mode.
Field Wiring Connector	25-Pin D-shell connector
Internal Power Consumption	500mA from 5VDC maximum. Supplied by base power supply or external supply.
Operating Environment	0°C to 60°C (32°F to 140°F), 5% to 95% humidity (non-condensing)
Manufacturer	Koyo Electronics

Mode 1:
general purpose port

You can use the DCU as a general purpose communication port to connect your DL305 to various devices such as an operator interface or personal computer. The DCU does not require any programming. You can simply set the DCU communication parameters, connect the appropriate RS232C or RS422 communication cables, and start programming or transferring data. Typically this application would use the RS232C version of the DCU (D3-232-DCU).

Online/offline switch

DIP switches for communications and protocol parameters

Communication port

Handheld programmer connector

Mode 2:
DirectNET network interface

The DCU can be used as a network interface for applications requiring data to be shared between PLCs, or between PLCs and an intelligent device such as a host computer. The DCU supports DirectNET protocol (often called HostLink or CCM). Since most of our product families support this protocol, you can easily build a simple network that allows you to upload or download virtually any type of system data, including Timer/Counter data, I/O information, and V-memory information.