

# Data Communications Units

## D3-232-DCU <---> D3-422-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.

### 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).

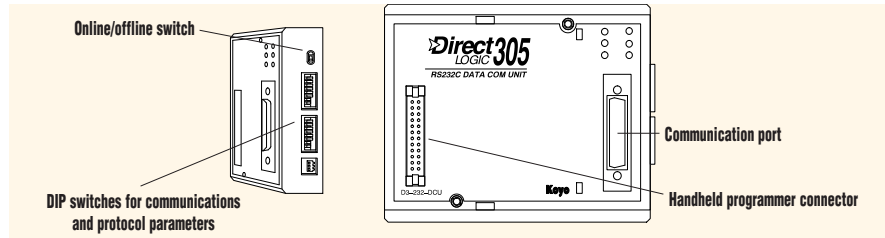
## FA-UNICON <--->



The FA-UNICON Universal Converter provides an inexpensive way to convert D3-422-DCU RS-422 signals into RS-232C signals for connection to a PC. This kit contains the converter itself and several specialty connectors and cables that make it easy to use and install. The converter requires an external power source for operation.

The FA-UNICON can also be used with GE IC610CCM105 and TI 305-02DM RS-422 DCU units.

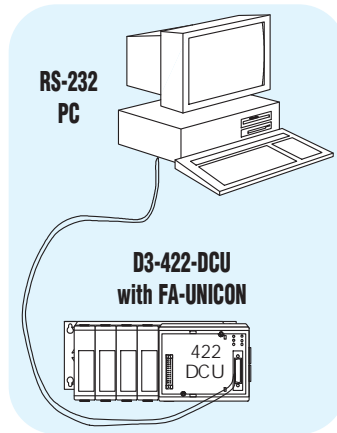
Specifications	
<b>Unit Type</b>	Intelligent
<b>Units per CPU</b>	One, direct connect to CPU
<b>Communications</b>	RS232C with D3-232-DCU RS422 with D3-422-DCU DirectNET™, Baud rate selectable from 300 to 19.2K baud. Odd or No parity. HEX or ASCII mode.
<b>Field Wiring Connector</b>	25-Pin D-shell connector
<b>Internal Power Consumption</b>	500mA from 5VDC maximum. Supplied by base power supply or external supply.
<b>Operating Environment</b>	0°C to 60°C (32°F to 140°F), 5% to 95% humidity (non-condensing)
<b>Manufacturer</b>	Koyo Electronics



### 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.

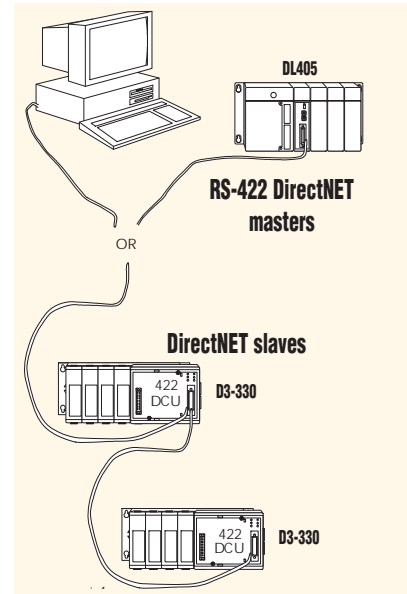
Typically this application would use the RS422 version of the DCU (D3-422-DCU).



The FA-UNICON contains the following items:

- RS-232/422 converter
- 25-pin male-to-male gender changer
- 25-pin male to RJ12 6P6C connector
- 3' cable, RJ12 6-pin plug to RJ11 4-pin plug
- 7' cable with RJ12 6-pin plug to RJ12 6-pin
- DB9 Female to RJ12 6P6C connector

### RS422 DirectNET Network



### FA-UNICON Specifications

- Supply voltage: 22-26 VDC or 5 VDC
- No load current: 65 mA
- Max. current: 100 mA
- Operating temp: 45°C (113°F) for 24V supply, 60°C (140°F) for 5V supply