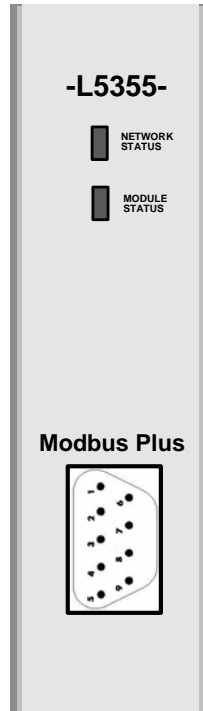


L5355 MODBUS PLUS™ *Link Card*

GENERAL DESCRIPTION

MODBUS PLUS is an open data communications network that provides a basis for the exchange of information among products on the factory floor. The L5355 MODBUS PLUS *LINK* Card is part of the *LINK2* family and provides a gateway between a *LINK* control system and MODBUS PLUS™, when installed in a *LINK* Station or *LINK* Rack. The L5355 is a slave device and must be controlled by an MODBUS PLUS master, such as a PLC or a PC with SCADA system software. Terminal connections are in the form of a 9-pin D-SUB connector.



FUNCTION BLOCKS

The L5355 function block can be used within a *LINK* Rack L5300 or *LINK* Station L5392 configuration. It is accessible using the Windows™ based graphical configuration package, DSD with Class revision 1059 or higher, by opening an L5300 or L5392 file. Clicking on **Block/LinkCard/L5355 MODBUS PLUS** makes the L5355 block appear. Double-click on it to set the “Site” information. This refers to the slot number in the L5300 or L5392 where the MODBUS PLUS LINK Card is inserted. Choose from J2 (leftmost) to J4 (rightmost). After creating the required registers, they are mapped in the **L5355 MODBUS PLUS** control block. For details, refer to the on-line function block descriptions and specifications under the **Help** menu in DSD.

Module Status LED

This bi-color (green - red) LED provides device status. It indicates whether or not the device is powered and operating properly. Table 1 defines the different states of the Module Status LED.

Table 1

LED State	Status	Reason
Off	Disabled	<ul style="list-style-type: none"> No power applied to the device Host <i>LINK2</i> module is not running its configuration Hardware Fault Not Programmed in Link Configuration
Red	Hardware fault	<ul style="list-style-type: none"> After configuration attempt the module faults
Flashing Red	Configuration Error	<ul style="list-style-type: none"> Wrong Communication Option Selected Configuration not completed
Blink Red	Alive Announcement	<ul style="list-style-type: none"> Initiating Communications with the network
Flashing Green	Device in standby or Card Initializing	<ul style="list-style-type: none"> Device needs commissioning due to missing, incomplete or incorrect configuration
Green	Device operational	<ul style="list-style-type: none"> The device is operating in a normal condition

L5355 Network Status LED

This bi-color (green - red) LED indicates the status of the communications link. Table 2 defines the different states of the Network Status LED.

Table 2

LED State	Status	Reason
Off	Power off	<ul style="list-style-type: none"> No power applied to the device Host <i>LINK2</i> module is not running its configuration Hardware Fault
Flashing Red	Initializing	<ul style="list-style-type: none"> Card is initializing
Red	Monitor Link	<ul style="list-style-type: none"> Listen only mode
Flashing Orange	No Token	<ul style="list-style-type: none"> No communications from the Master device, with the network complete
Solid Orange	Only Station	<ul style="list-style-type: none"> Only device on the network Open cable
Flashing Green	Dup Station	<ul style="list-style-type: none"> Duplicate node on the Modbus Plus network
Green	Normal Link	<ul style="list-style-type: none"> The device is operating in a normal condition

L5355 MODBUS PLUS *Link Card*

TECHNICAL SPECIFICATIONS

Environmental

Operating temperature	0°C to 50°C (32 to 122°F)
Storage temperature	-10 °C to +70 °C (14 to 158°F)
Humidity	85% RH. in a dry, non-condensing environment
Enclosure Rating	Touchsafe IP20. To be mounted inside a Eurotherm L53XX series enclosure

Supply

Supply Voltage	5VDC, supplied by backplane
Current Consumption	310 mA @ 5VDC
Power Dissipation	1.6 W

MODBUS PLUS

Connection Types	Process Data parameters selected by MODBUS PLUS Master.
Baud Rate	1 M Baud
Data Types	Unsigned Integers (LINK Ordinals) 256 words input and 256 words output.
Indicators supported	Network status bi-color LED, Module status bi-color LED
Configurability	LINK Card configuration performed using DSD. MODBUS PLUS network and PLC programmed independently
Connector type	D-SUB (9 pin)

Physical

Height	120mm (4.72 in)
Width	32mm (1.25 in)
Depth	90mm (3.54in)
Weight	0.16 kg (0.35 lbs)

