Technical Note LVD-EOTKN097U-EN

VFD-Gateway Alarm Messages over Ethernet/IP

Represent the VFD-Gateway Alarm/Communication Errors over the Ethernet/IP connection.

The VFD-Gateway has a way to let the Scanner PLC know about a Modbus drive Node Error over the Ethernet/IP network. This can be used for alarm handling in the Scanner or to alert the system when an issue arises.

Drives Input/Output data array mapping is as follows:

- Drive 1 = Integers 0-14
- Drive 2 = Integer 15-29
- Drive 3 = Integer 30-44
- Drive 4 = Integer 45-59
- Drive 5 = Integer 60-74
    - Integer 74
        - Bit 0 – Reserved for Ethernet/IP Errors
        - Bit 1 – Modbus Node 1 Errors
        - Bit 2 – Modbus Node 2 Errors
        - Bit 3 – Modbus Node 3 Errors
        - Bit 4 – Modbus Node 4 Errors
        - Bit 5 – Modbus Node 5 Errors

Example Setup with Error:

Node 1 – ACS580 – Modbus Network OK

Node 2 – ACS580 – Modbus Network OK

Node 3 – ACS880 – Modbus Network Error

The data [74] registers show that Modbus Node 3 has an issue:

VFD_Gateway:I.Data[74]	8		Decimal	INT
VFD_Gateway:I.Data[74].0	0		Decimal	BOOL
VFD_Gateway:I.Data[74].1	0		Decimal	BOOL
VFD_Gateway:I.Data[74].2	0		Decimal	BOOL
VFD_Gateway:I.Data[74].3	1		Decimal	BOOL
VFD_Gateway:I.Data[74].4	0		Decimal	BOOL
VFD_Gateway:I.Data[74].5	0		Decimal	BOOL
VFD_Gateway:I.Data[74].6	0		Decimal	BOOL