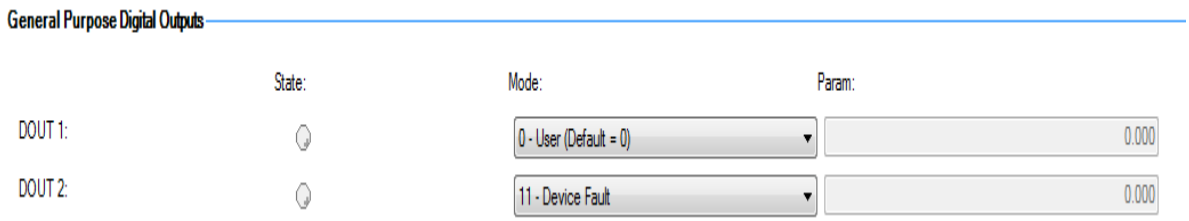
There are 2 methods you can use to read a fault/no fault status condition over Modbus TCP.

The 1st method would be to set DOUT1 or DOUT2 up for mode 11 (Drive Fault).



Then you can read the state of the configured output over Modbus (off or on; 0 or 1).

DOUT1.STATE AND DOUT2.STATE

General Information	
Type	R/O Parameter
Description	Reads the digital output state.
Units	N/A
Range	0 to 1
Default Value	N/A
Data Type	Integer
Start Version	M_01-00-00-000

Variants Supported

Variant	Supported
AKD Base	Yes
AKD with Position Indexer	Yes
AKD EtherCAT	Yes
AKD CANopen	Yes
AKD BASIC	Yes
AKD SynqNet	Yes
AKD EtherNet/IP	Yes
AKD Profinet	Yes
AKD sercos® III	Yes
AKD-N	Yes
AKD-C	Yes

Fieldbus Information

Paramter	Fieldbus	Address	Attributes	Signed?
DOUT1.STATE	Profinet	2101	Byte	No
	sercos® III		2 Octets	
DOUT2.STATE	Profinet	2106	Byte	
	sercos® III		2 Octets	

Fieldbus	Index/Subindex		Is 64 bit?	Attributes	Signed?	Object Start Version
Modbus	202	DOUT1.STATE	No	8 bit	No	M_01-03-00-000
	212	DOUT2.STATE				

Description

Reads the state of one digital output according to the value stated in the command.

NOTE AKD-C and AKD-N only support DOUT1.

Related Topics

Digital Outputs

The second method uses no outputs but instead reads DRV.FAULT1. Per below if the value is 0 then no faults are present.

This is not a fault history but active faults.

DRV.FAULT1 to DRV.FAULT10

General Information	
Type	R/O
Description	Location of fault codes for any active fault conditions.
Units	N/A
Range	Any supported fault code or 0.
Default Value	N/A
Data Type	Integer
Start Version	M_01-06-00-000

Variants Supported

Variant	Supported
AKD Base	Yes
AKD with Position Indexer	Yes
AKD EtherCAT	Yes
AKD CANopen	Yes
AKD BASIC	Yes
AKD SynqNet	Yes
AKD EtherNet/IP	Yes
AKD Profinet	Yes
AKD sercos® III	Yes
AKD-N	Yes
AKD-C	Yes

Fieldbus Information

Paramter	Fieldbus	Address	Attributes	Signed?
DRV.FAULT1	Profinet	2477	Word	No
	sercos® III		2 Octets	
DRV.FAULT2	Profinet	2478	Word	
	sercos® III		2 Octets	
DRV.FAULT3	Profinet	2479	Word	
	sercos® III		2 Octets	
DRV.FAULT4	Profinet	2480	Word	
	sercos® III		2 Octets	
DRV.FAULT5	Profinet	2481	Word	
	sercos® III		2 Octets	
DRV.FAULT6	Profinet	2482	Word	
	sercos® III		2 Octets	
DRV.FAULT7	Profinet	2483	Word	
	sercos® III		2 Octets	
DRV.FAULT8	Profinet	2484	Word	
	sercos® III		2 Octets	
DRV.FAULT9	Profinet	2485	Word	
	sercos® III		2 Octets	
DRV.FAULT10	Profinet	2486	Word	
	sercos® III		2 Octets	

Fieldbus	Index/Subindex		Is 64 bit?	Attributes	Signed?
Modbus	954	DRV.FAULT1	No	16 bit	No
	956	DRV.FAULT2			
	958	DRV.FAULT3			
	960	DRV.FAULT4			
	962	DRV.FAULT5			
	964	DRV.FAULT6			
	966	DRV.FAULT7			
	968	DRV.FAULT8			
	970	DRV.FAULT9			
	972	DRV.FAULT10			

Description

These parameters are holding registers where any active faults will be kept. A value of zero represents that no fault is present. Non-zero values correspond to specific fault codes in the drive (see fault and warning messages). The registers are populated in the order of when the fault occurs (DRV.FAULT1, DRV.FAULT2, DRV.FAULT3, and so on).

Notes:

- If DRV.FAULT1 value is 0, then the drive does not have any faults.
- Only active faults are shown. This is not a fault history.
- These registers are an alternative to the string type parameter DRV.FAULTS, so that fieldbusses and AKD BASIC users have easier access to the details of the faults in the drive.
- Warnings are not shown in the registers, only faults.