



Micro800: Baykon BX13 Modbus RTU Command Block

User Defined Function Block Manual

2015 - Revision 1.00

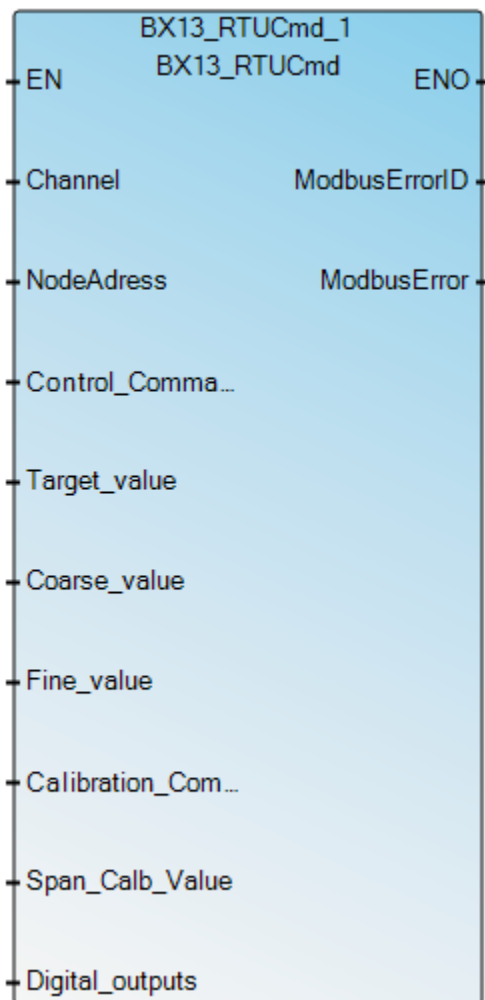


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BX13_RTUCmd User Defined Function Block

This UDFB sends commands to Baykon BX13 and similar modules using Modbus RTU over RS-485. Block uses big-endian format at Modbus communication registers therefore Baykon devices should be configured as required by this information. The BX13_RTUCmd block was generated with Connected Components Workbench Version 8.00 and it is not compatible with lower revisions.



Block Variables	Data Type	Description
FBEN	Bool	When preceding rung conditions are true, function block is enabled.
Channel	UInt	Serial port plug-in channel number(1-5).
NodeAddress	USint	Modbus RTU slave address of Baykon module.
Control_Commands	Int	0 None
		1 Zero
		2 Tare
		3 Clear
		4 Print
		8 Start for filling
		9 Reset
		14 Start for discharge
Target_value	Dint	Target value
Coarse_value	Dint	Coarse value
Fine_value	Dint	Fine value
Calibration_Commands	Int	0 None
		188 Adjust zero calibration
		220 Adjust span calibration
		236 Total load cell capacity
		250 Average mV/V
		171 Dead load
		23205 Save coefficients of eCal
Span_Calb_Value	Dint	Span calibration value
Digital_outputs	Dint	Adjust digital outputs (Regard to the mode of module)
FBENO	Bool	When function block is enabled this output is enabled.
Modbus_Error	Bool	Communication error occurred
Modbus_ErrorID	UInt	Communication error ID (see the table below)

Modbus Communication Error Table

3	The value of the TriggerType has been changed from 2 - 255.
20	The local communication driver is incompatible with the MSG instruction.
21	A local channel configuration parameter error exists.
22	The Target or Local Bridge address is higher than the maximum node address.
33	A bad MSG file parameter exists.
54	A lost modem.
55	The message timed out in the local processor. A link layer timeout.
217	The user cancelled the message.
129	An illegal function.
130	An illegal data address.
131	An illegal data value.
132	A slave device failure.
133	Acknowledge.
134	The slave device is busy.
135	Negative acknowledge.
136	A memory parity error.
137	A non-standard reply.
255	The channel has been shut down.