

Vendor:	ABB
Device:	TZIDC-120 / TZIDC-220
Protocol:	FOUNDATION Fieldbus (FF H1)

Type:	Digital Positioner
Application:	Electro-Pneumatic Valve Positioner

	System 800xA	Asset Vision
Supported System versions:	SV4.1 (RU-Jun06) SV5.0	v5.0

Device Object Type	ABB TZIDC-x20 V1.1-FF
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For detail information about supported system versions refer to *FF H1 Device Object Type ABB TZIDC-x20 Version 1.x Release Notes (2PAA100026)*.



**TZIDC-120/ TZIDC-220
Digital Valve Positioner
FF H1 (FOUNDATION Fieldbus)**

Conditions monitored:

Condition	SubCond	Description	Possible Cause	Suggested Action	Severity
DEVICE OUT OF SERVICE OR INITIALIZING					
	Yes	The device has just powered up.	Resource Block is Out of Service or in Initialization Manual mode	Check the Target mode for function blocks. If actual mode is different from the target mode check PV status and block configuration.	1000
BLOCK(S) OUT OF SERVICE OF POWERING-UP					
	Yes	The block is currently out of service.	Error in block configuration	Check block configuration for details.	1000
INPUT OR OUTPUT FAILURE					
	Yes	Input or Output transducer channel has failed.	Input Failure: Either the input transducer channel has reported a failure, or the input parameter from an upstream block has reported a failure. For an AI block, this could be caused by an open circuit being detected on the FP-AI-100 input module. Output Failure: The output transducer channel has reported a failure. For an AO block, this could indicate that the FP-AO-200 cannot drive the current request, perhaps due to an open circuit.	Check transducer or transducer connections.	1000

Condition	SubCond	Description	Possible Cause	Suggested Action	Severity
BLOCK CONFIGURATION ERROR OR LINK CONFIGURATION ERROR					
	Yes	Block Configuration Error: The block has detected an error in its configuration. This usually indicates a static parameter has been left uninitialized. Link Configuration Error: The logical connection between this block and another block is misconfigured.	Block configuration error: Invalid parameter setting in the block. Link Configuration error: link used in one of the function blocks is improperly configured.	Review the block configuration per the manufacturer guidelines. In case of Resource Block, possibly a feature in FEATURES_SEL is set that is not supported by FEATURES or an execution cycle in CYCLE_SEL is set that is not supported by CYCLE_TYPE. Review the function block link configuration. See manufacturer suggestion.	1000
DATA OR MEMORY ERROR					
	Yes	The storage for nonvolatile and static parameters was corrupted.	Hardware electronic problem.	Electronics module may require replacement.	1000
DEVICE NEEDS MAINTENANCE					
	Soon	The device is reporting performance degradation that will soon require maintenance.	May be due to process/ environmental conditions or period of time device has been in operation	Add device to maintenance schedule	1000
	Now	The device needs to be maintained now.	May be due to process/ environmental conditions or period of time device has been in operation	Carry out device maintenance now	1000
FAULT STATE SET					
	Yes	The block's faultstate behavior is active.	Fault state has been manually selected	Investigate if fault state can be reset via engineering tool	1000
READBACK CHECK FAILED					
	Yes	The value read back from the output channel does not match the value the output channel was set to.	Positioner unable to achieve output position	Physical check of control valve, linkages and air supply	1000
UNSPECIFIED ERROR					
	Yes	Undefined block error condition.	Device specific diagnosis present.	Check device specific diagnostic information.	1000
POSITION SENSOR MALFUNCTION					
	Yes	Device Functionality related. Malfunction in position measurement	Error in mechanical mounting of device or error in position sensor or connection electronics to sensor	Check mounting or replace device	1000
POSITIONING TIME					
	Exceeded	Installation and Process related. Positioning time exceeded	Valve operation blocked or high friction; air supply interrupted	Check valve or power supply	1000
POSITIONING CONTROLLER					
	Inactive	Installation and Process related. Position controller is inactive - Control Operation is interrupted	Mode not in Automatic	Check device mode and change it to Mode Auto	750
TEMPERATURE ELECTRONIC					
	Out of Range	Installation and Process related. Electronic temperature limit exceeded	Environment temperature too high	Check environment, Electronic temperature out of range	750

Condition	SubCond	Description	Possible Cause	Suggested Action	Severity
VALVE MAINTENANCE					
	Required now	Installation and Process related. Valve Travel Counter Limit exceeded	Mechanical Load / Cumulated Valve Stroke/Movements limit reached (dynamic stress)	Valve Maintenance required.	500
	Required now	Installation and Process related. Valve Movement Counter Limit exceeded	Mechanical Load / Cumulated Valve Stroke/Movements limit reached (dynamic stress)	Valve Maintenance required.	500
POSITIONING MAX WORK RANGE					
	Out of Range	Installation and Process related. Position out of max work range	Mounting and wear at valve seat increased; Wear on the closure member or seat contamination	Check mechanical mounting and adjust working range	500
POSITIONING SENSOR RANGE					
	Out of Range	Installation and Process related. Working range not adjusted	If factory data were loaded (after factory reset) the working range settings would have been deleted	Adjust working range	500
	Out of Range	Installation and Process related. Position Switchpoint 1 Active	Digital valve position / behaviour	to be described by application	500
	Out of Range	Installation and Process related. Position Switchpoint 2 Active	Digital valve position / behaviour	to be described by application	500



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