

Type 8741, 8742, 8746 MFC / MFM

Description to the display of the device status for the different software versions.

Beschreibung zur Anzeige des Gerätezustands für die unterschiedlichen Software-Versionen.

Supplement to the Operating Instructions

Ergänzung zur Bedienungsanleitung

We reserve the right to make technical changes without notice. Technische Änderungen vorbehalten. Sous réserve de modifications techniques.

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Supplement to the Operating Instructions 1605/01_EU-ML_00810500 / Original DE

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Supplement to Operating Instructions

This instructions describes the change of the color assignment of the device status LED.

For following software versions:

- up to and including version A.07
 The color assignment based partly on Namur NE 107.
- version A.08 and higher.
 The color assignment is compliant with Namur NE 107.



The MFM/MFC has an LED to display the device status, the color and status change accordingly to the device status. If more than one device status exists simultaneously, the device status with the highest priority is displayed.

Color code overview

Color	Color code Hex/Dec				
	Lit	Blinking	Flashing		
White	0/0	10/16	20/32		
Green	1/1	11/17	21/33		
Blue	2/2	12/18	22/34		
Yellow	3/3	13/19	23/35		
Orange	4/4	14/20	24/36		
Red	5/5	15/21	25/37		

Tab. 1: Color code Hex/Dec



Supplement to Operating Instructions

Display of the device status - up to and including software version A.07

The color assignment based partly on Namur NE 107.

LED	Color cod	e Hex/De	Hex/Dec Description		Description	on of device status	What to do?
	Lit	Blinking	Flashing				
No color	_	_	_	-	The device	e is not energized.	Energize the device.
All colors	09/09			Device is in AUTO- MATIC operating state	The device is using the standard set-point value for control.		_
			2029/ 3241	Identification: Device connected to the network.	network. "F when the c	device on the büS Flashing" status is started device is selected in the ommunicator" software.	After 10 seconds, the device automatically returns to the previous status ("lit" or "blinking").
White	0/0	10/16	20/32	Normal operation	Device is in AUTOMATIC operating state.		-
				Normal operation	büS	Control loop disabled, direct specification of the variable to the valve.	-
						Setpoint source is manual set-point value specification.	_
					CANopen	The device is in the "Pre-operational" state.	_
Green	1/1	_	21/33	Diagnostics active	AUTOTUNE active		_
					SYSTEM A	NALYSIS function active	-

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LED	Color code Hex/Dec		Description	Description of device status	What to do?		
	Lit	Blinking	Flashing				
Blue	2/2	_	22/34	Maintenance required	Memory error. Error detected in the calibration curve.	Maintenance is needed – Contact the manufacturer.	
Yellow	3/3	_	23/35	Out of specification	AUTOTUNE defective and aborted.	Restart AUTOTUNE.	
Orange	4/4		24/36	Warning	Device is in AUTOMATIC operating state.	-	
				Medium or device temperature out of specification, potential destruction of the sensor or device.			
					reached. The set-point value cannot	tional valve has been (almost) 100%	Increase the operating pressure (observe the maximum permissible supply pressure).
			be attained.	Check the pressure drop in the pipe and reduce it if necessary.			
				Check the dimensions of the installation.			
						Check the filters installed in the pipe and clean them if necessary.	



LED	Color cod	or code Hex/Dec		Description	Description of device status	What to do?
	Lit	Blinking	Flashing			
Orange		14/20		Warning	Calibration activated	_
					The device is in MANUAL operating state. The control variable for the proportional valve has been (almost) 100% reached. The set-point value cannot be attained.	Increase the operating pressure (observe the maximum permissible supply pressure). Check the pressure drop in the pipe and reduce it if necessary. Check the dimensions of the installation.
					Search for büS participants is active. Mode will exit after a few seconds.	Check the filters installed in the pipe and clean them if necessary.
Red	5/5	_	25/37	Error	Sensor defect.	Maintenance is needed –
rtou	0,0		20/07	Litoi	Memory defect.	Contact the manufacturer.
					Device defect.	
			Device cannot find the assigned büS participant.	Review the allocation of the büS participant in the affected device.		
						Review the assigned büS participant and the their büS participant allocation.
					Bus error (e.g. short circuit).	Check the wiring.

Tab. 2: LED display of the device status and measures – up to and including software version A.07

Supplement to Operating Instructions



Display of the device status - software version A.08 and higher

The color assignment is compliant with Namur NE 107.

LED	Color code Hex/Dec		Description	Description of device status	What to do?
compliant with NAMUR NE 107	Lit	Flashing	according NAMUR NE 107		
No color	_	_	_	The device is not energized.	Energize the device.
All colors		2029/ 3241	-	Device is selected using the "Bürkert Communicator" software.	_
Green	1/1	21/33	Diagnostics active	The device is supplied with power.	The device is in AUTOMATIC operating state or STORED SETPOINT.
Blue	2/2	22/34	Maintenance required	Memory error. Error detected in the calibration curve.	Maintenance is needed - Contact the manufacturer.



compliant with NAMUR NE 107	Color code	e Hex/Dec	Description according NAMUR NE 107	Description of device status	What to do?				
	Lit	Flashing							
Yellow	3/3	23/35	Out of specification	Medium temperature or device temperature or supply voltage out of specification, potential destruction of the sensor or device.	Operate the device within the specifications.				
			The control variable for the proportional valve has been (almost) 100% reached. The set-point	Increase the operating pressure (observe the maximum permissible supply pressure).					
				value cannot be attained.	Check the pressure drop in the pipe and reduce it if necessary.				
					Check the dimensions of the installation.				
									Check the filters installed in the pipe and clean them if necessary.
				Another fieldbus participant uses the same node ID.	Assign a different node ID.				





LED	Color code	e Hex/Dec	Description	Description of device status	What to do?
compliant with NAMUR NE 107	Lit	Flashing	according NAMUR NE 107		
Orange	4/4	24/36	Check function	AUTOTUNE active	_
				Calibration active	_
				Control loop disabled, direct specification of the variable to the valve.	_
				Setpoint source is MANUAL SETPOINT or OPEN-LOOP- CONTROL specification.	-
				SYSTEM ANALYSIS function active	_
				büS mode only: Device searches for allocated participant.	-
				büS mode only: Invalid producer mapping	Search may take up to one minute.



LED	Color code	e Hex/Dec	Description	Description of device status	What to do?
compliant with NAMUR NE 107	Lit	Flashing	according NAMUR NE 107		
Red	5/5	25/37	Failure	AUTOTUNE defective and aborted.	Restart AUTOTUNE.
				Sensor defect.	Maintenance is needed - Contact the manufacturer.
				Internal memory defect.	Maintenance is needed – Contact the manufacturer.
				Device defect.	Maintenance is needed – Contact the manufacturer.
			Supply voltage out of specified error limits, potential destruction of the device.	Operate the device within the specifications.	
				Bus error (e.g. short Circuit).	Check the wiring.
			büS mode only: Device cannot find other büS participants.	Check the wiring. Operate device with other büS devices.	
				büS mode only: Device cannot	Review the allocation of the process value.
		find the allocated process value.	Allocated büS participant doesn't send cyclic data. Review the assigned büS participant for a defect.		

Tab. 3: LED display of the device status and measures – software version A.08 and higher



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