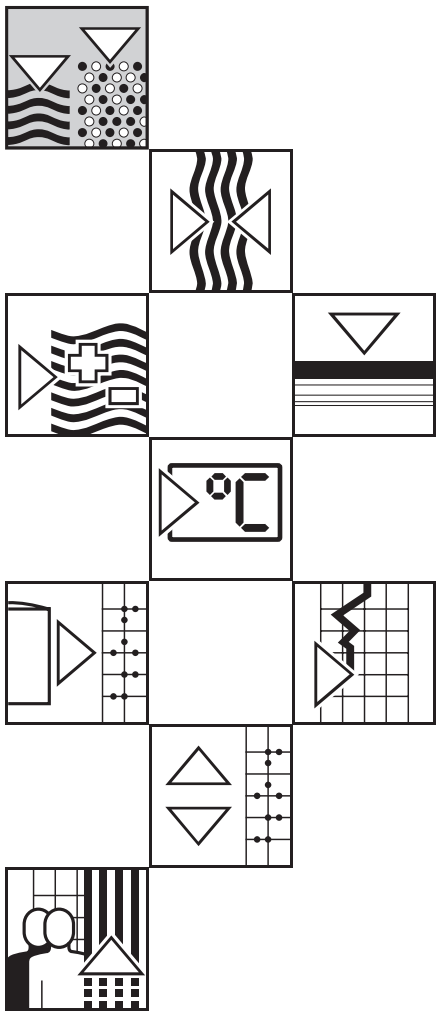
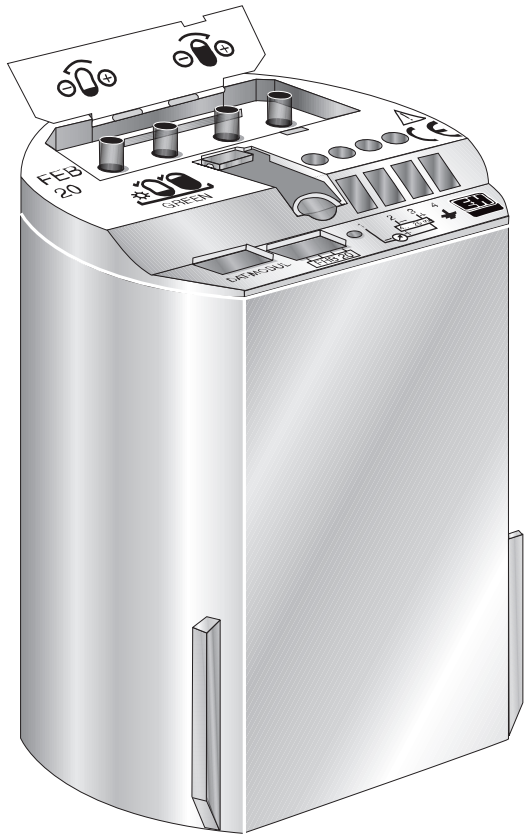
BA 152F/00/en/10.99
Software Version from 2.0
016837-1001

Electronic insert
FEB 20 with INTENSOR Protocol
FEB 22 with HART Protocol

Operating Instructions





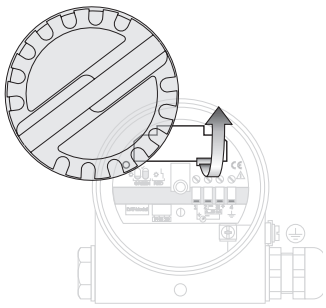
Endress+Hauser

The Power of Know How

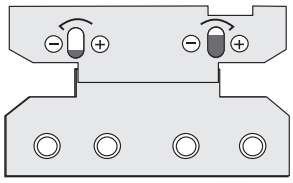
Quick Reference Guide

This quick reference guide enables trained personnel to quickly carry out a standard calibration:
① without the display and operating module
② with the FHB 20 display and operating module plugged in

Warning!
This quick reference guide may only be used by trained personnel who are thoroughly familiar with the BA152F installation and operating instructions.



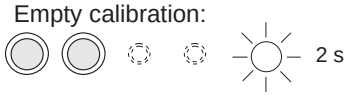
① Operation without display
Key operation



Reset:

Empty and full calibration

Empty calibration:

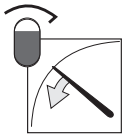


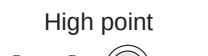
Full calibration:

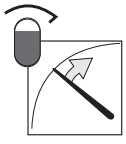
Calibrating a partially filled vessel with an ammeter

Low point

High point



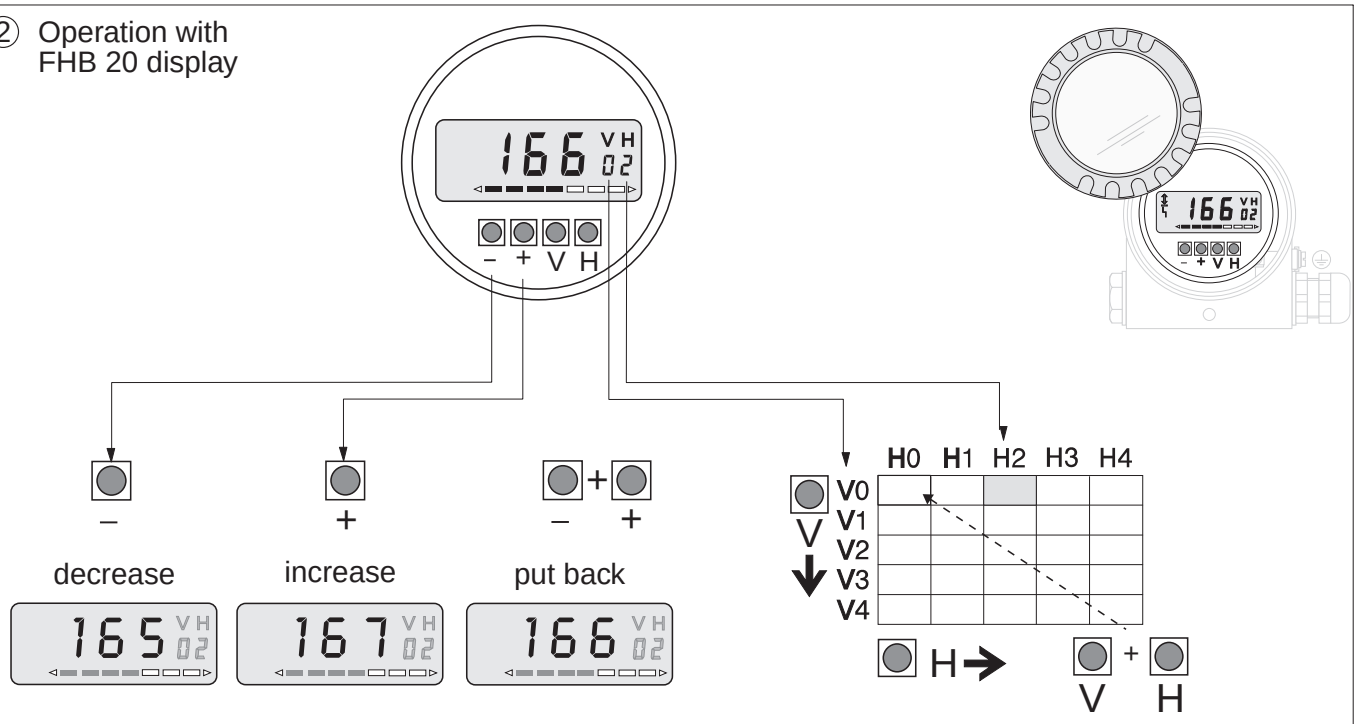




Lock parameters

Unlock parameters

② Operation with FHB 20 display



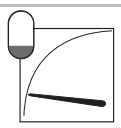
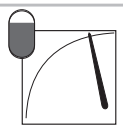
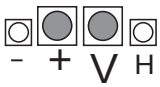
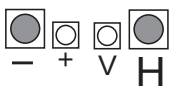
	Keys	Matrix	Input	Confirms entry
Reset:		V9H5	333	V or H
Calibration:		V3H0	Selects calibration mode 0 … level	V or H
		V0H1	 Empty calibration	V or H
		V0H2	 Full calibration	V or H
Current output:		V0H5	 4 mA	V or H
		V0H6	 20 mA	V or H
Lock matrix:		V9H9	≠ 333	V or H
Unlock matrix:		V9H9	 333	V or H

Table of Contents

Software Development

FEB 20 with VU 260 Z

Software version and BA version			Modifications	Remarks
FEB 20	**Instrument and Software No.**	**VU 260 Z**		
1.1	7811	1.7	No changes in documentation.	No up/download between SW 1.x and SW 2.x possible
1.3	7813	1.7		
1.4	7814	1.7		
2.0	7820	1.8	Operating without display: – Calibration via pushbuttons affects matrix field V0H1 »Empty calibration«, V0H2 «Full calibration« and V0H5 »Value for 4 mA«, V0H6 »Value for 20 mA« Operating with matrix: – V0H5/V0H6: Current output can be inverted – V3H7: »Bias pressure« supplemented – V3H6: »Display before bias« supplemented – V0H8: changed to »Display after bias«	

FEB 22 with DXR 275

Software version und BA version			Modifications	Remarks
FEB 22	**Instrument and Software No.**	**DXR 275**		
1.1	7911	Device Revision: 1 DD- Revision: 1	No changes in documentation.	No up/download between SW 1.x and SW 2.x possible
1.3	7913			
1.4	7914			
2.0	7920	Device Revision: 2 DD- Revision: 1	Operating without display: Calibration via pushbuttons affects – »Calibration«: »Empty calibration«, »Full calibration« and »Value for 4 mA«, »Value for 20 mA« Operating with matrix: – »Calibration«: Current output can be inverted – »Extended calibration«: »Bias« supplemented, that's why – »Calibration«: Display before bias« supplemented – »Extended Calibration« »Display after bias« supplemented	