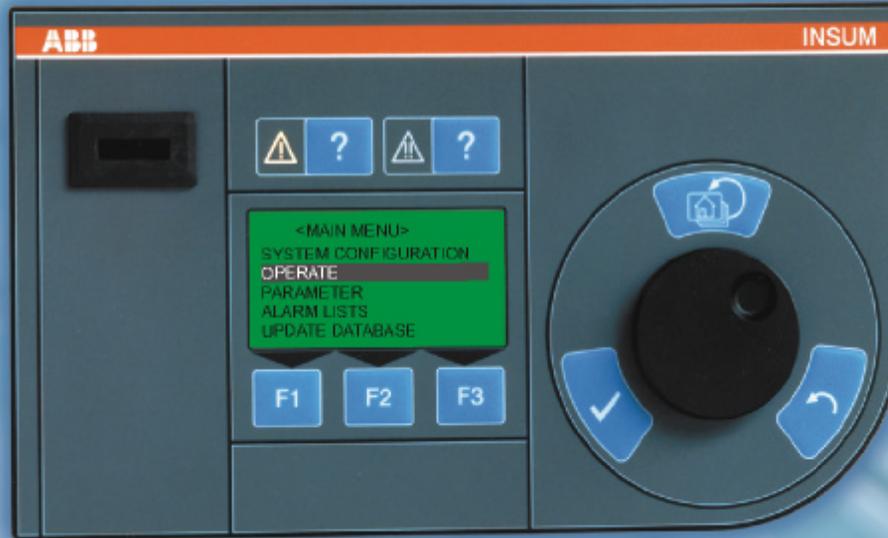


INSUM[®] MMI Quick User Guide



MMI operating components



KEY. Configuration key: Definition of MMI access authorization without user key and definition of process group(s). User key: User or user groups get access to the defined process group(s) when key is inserted.



ALARM INDICATOR and ALARM(S) LIST button. The triangle flashes or is illuminated in yellow color if at least one alarm is present. Pressing the adjacent blue key will show a list of the motors that signal an alarm.



TRIP INDICATOR and TRIP(S) LIST button. The triangle flashes or is illuminated in red color if at least one trip is present. Pressing the adjacent blue key will show a list of motors that signal a trip.



ENTER KEY. This key confirms the menu item selected with the ENCODER WHEEL. The MMI will then perform the desired function, e.g. selection of a menu item or motor.



HOME KEY. From any position within the menu structure the HOME KEY will navigate to the <MAIN MENU>.



ESCAPE KEY. This key will cancel an undesired activity. The MMI will return to the previous menu (one step back).



ENCODER WHEEL. The ENCODER WHEEL enables simple and fast menu navigation and selection. Turning the wheel counter-clockwise will move the cursor downward, turning it clockwise will move the cursor upward. The menu item currently selected by the encoder wheel is displayed in inverse video.



FUNCTION KEYS. The FUNCTION KEYS are context sensitive. A function assigned is displayed above the respective key. If no text is displayed the key has no function.

FUNCTION KEYS description

1. Data selection

↓ / → / ← Move the cursor

2. MCU operation

START Start the motor (N1, N2, CW, CCW, OPEN, CLOSE)

STOP Stop the motor

RESET Reset a fault message (has to be operated twice 1-selection; 2-confirmation)

3. PR 112 operation

OPEN Open circuit breaker contacts

CLOSE Close circuit breaker contacts

RESET Reset a warning

4. System commands

REMOVE Remove the device from the device list

EDIT Change to edit mode, parameters can be modified

SEND Send the modified parameters to the field device

OPERATE Direct change to the submenu from which the device can be operated

PARAM Direct change to the submenu from which the device parameters can be modified

GET PAR Load parameter from field device

PAR DEF Reset parameters of field device to factory defaults (for MCU only)

INSTALL Installation/assignment of the LON address

DEFAULT Setting of default bindings

WINK Bus test; when pressed, the status indicators on the device flash

SAVE Saving of MMI parameters

CHK ON Only parameters relevant to the current field device configuration are shown (for MCU only)

CHK OFF All parameters are shown (for MCU only)

Essential MMI features

MMI installation

1. Insert data key in the front panel of the MMI
2. Select SYSTEM INSTALLATION from the <MAIN MENU>  
3. Select the address, e.g. 5/20 and press INSTALL (F1) 
4. When prompted press the service PIN on the right hand side of the unit
5. Load default bindings (F2) 



Service PIN

Installation of new MCU (not all addresses are allowed)

1. Select SYSTEM INSTALLATION from the <MAIN MENU>  
2. Select a free address and press ENTER  
3. Press INSTALL (F1) 
4. Turn operating handle of the module to test position
5. Load default bindings (F2) 
6. Press Wink (F3) 

Start or stop a device / motor

1. Select OPERATE from the <MAIN MENU> and press ENTER  
2. Choose a device/motor and press ENTER  
3. Select a command (F2/F3) 
4. Press key once more to confirm (F2/F3) 

Displaying measured values of the MCU (Motor is running)

1. Select OPERATE in <MAIN MENU> and press ENTER  
2. Choose device/motor and press ENTER  
3. Press (F1) and press ENTER  
4. Turn the ENCODER WHEEL to select the desired value 

Displaying an alarm or a trip

1. Press the questionmark button next to respective flashing indicator   or  
2. Press ENTER. The trip/warning cause is displayed 
3. Press OPERATE (F1) 
4. Correct the condition leading to the trip/alarm
5. Press RESET (F3) 
6. Press RESET (F3) once more to confirm

Displaying device data (Hardware, software, parameter file)

1. Select PARAMETER in <MAIN MENU> and press ENTER  
2. Choose device/motor and press ENTER  
3. Select DEVICE DATA and press ENTER  
4. Turn ENCODER WHEEL to display the device data 

Set parameters (!! Motor must not run otherwise settings are not possible !!)

1. Select PARAMETER in the <MAIN MENU> and press ENTER  
2. Choose a device/motor and press ENTER  
3. Choose a function and press ENTER (e.g. TOL Protection)  
4. Turn the ENCODER WHEEL clockwise to the desired item 
5. Press ENTER 
6. Press EDIT (F1) 
7. Turn the ENCODER WHEEL to select the desired value 
8. Press ENTER to confirm 
9. Press SEND (F2) 

MMI error messages and their possible corrections:

Error message	Cause	Correction
CA PASS FAILURE	MMI was not able to pass the control access (CA) to the selected backplane device	Check CA tables in the field device, CA priorities of the Gateways, MMIs, etc. Check LON bus, bindings (nvoCAPass)
DEVICE REMOVED	Device is removed from the bus; MNS drawer is disconnected	Check LON bus; check whether device has been removed
ERROR FTP PROCESS IN USE	Another MMI process uses FTP (File Transfer Protocol)	Wait for a while and then repeat the process
ERROR FTP: RCV PARAMETERS	MMI was not able to receive the parameter file from this device during the start phase; network problem	Press remove button; check LON bus or routers
ERROR NOT A KNOWN DEVICE	Device identifier (program ID) or software version is unknown	Check whether MMI supports this device type, update firmware
ERROR NV IS UNBOUND	Binding problem	Press default binding button; check bindings and reload
ERROR QUERY PROG ID	MCU is connected to a wrong router	Give the device the correct program ID or check the LON bus
ERROR: KEY SIZE	Key is not programmed or has wrong memory capacity	Use correct / programmed key belonging to this MMI
ERROR: PLANTID/PGROUP	The plant ID or plant group which is saved in the user key has not the same plant number as the MMI	Use correct / programmed key belonging to this MMI
INSTALLING NODE FAILURE	In case of failure during the MMI node installation procedure the MMI displays the error message.	Repeat the process; check LON bus, check routers, check device hardware to be installed,.
LOADING OF DEFAULT BINDINGS FAILURE	The MMI was not able to set the default bindings in the selected device.	Repeat the process, check the routers, the LON bus, the device hardware.
PARAMETER FILE RECEIVE ERROR/ PARAMETER FILE SEND ERROR	Reception or transmission of the parameter file from the selected device was not possible	Check LON bus or check routers
SAVING OF BINDINGS/PARAMETER NOT OK	MMI was not able to save parameters/bindings in the non-volatile memory area	Repeat saving process. If this error occurs frequently, check MMI (hardware)
SENDING WINK COMMAND – FAILURE	The MMI was not able to send the Wink command to the selected device.	Check that device is properly connected to the LON bus.
SWITCH DEVICE OFF/ONLINE ERROR	MMI could not switch device offline before sending parameter or could not switch online after sending	Check connection to the field device; check LON bus
TOO MANY NODES ON THE NETWORK	The maximum number of devices which can be handled by the MMI is exceeded (128 plus 16 backplane devices)	Reduce number of excessive devices. Delete respective devices from the device list