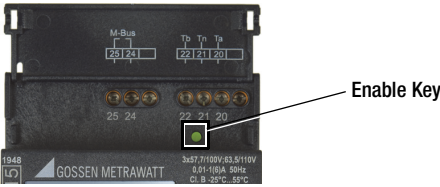


11.5 Viewing Values and Changing Parameters

Beginning from the standard display, it may be necessary to navigate through several displays/menus until you reach the value to be viewed or the parameter to be changed.

Parameter changes are only possible after activating the enable key, which makes it possible to enable or disable parameter changes. It's located underneath the top terminal cover between terminals 21 and 22 and is activated with a pointed object (e.g. an ESD safe screw-driver).



Pressing the enable key activates the "change parameters" operating mode (key off):

Pressing the enable key again disables the "change parameters" operating mode (key on):

If no keys are pressed for a period of about 2 minutes, the "change parameters" operating mode is exited automatically and disabled (key on).

- Briefly press the enable key. The "change parameters" mode is active.

- Navigate through the various displays/menus until you reach the desired parameter. See "Configuration and Operation".
- You can now view the desired value or adjust a parameter. See "Configuration and Operation".
- If no keys are pressed for a period of about one minute, the setting menu is exited.
- Press and hold the ENTER key or wait for one minute in order to change to the standard display.
- Press the enable key in order to disable the "change parameters" mode. Alternatively, disabling takes place automatically after 2 minutes.

11.6 Switching Amongst Tariffs Hardware Controlled

Tariff inputs Ta and Tb are each connected with reference to Tn. The tariffs are controlled by applying a defined voltage level.

Tariff Inputs	Tb	Ta
Tariff 1	0	0
Tariff 2	0	1
Tariff 3	1	0
Tariff 4	1	1

Level 0 = < 12 V_{AC}
Level 1 = 45 ... 265 V_{AC}

Depending on the combination of levels 0 and 1, the values measured at the instrument are recorded in the corresponding tariff. Recording is thus possible in a daytime and a nighttime tariff, for example. **Software Controlled (not included in scope of MID approval)** In the case of meters with bus (features W1 ... W7), 4 further tariffs can be selected (software controlled).

12 Error Messages

If an error occurs, the respective error code and active energy or instantaneous power are displayed alternately.

Error Code	Meaning	Cause/Remedy
LDUoLE	All phase voltages < 75%	Check connection*
UH _i 1	Maximum value for U ₁ exceeded	Check connection
UH _i 2	Maximum value for U ₂ exceeded	Check connection
UH _i 3	Maximum value for U ₃ exceeded	Check connection
IH _i 1	Maximum value for I ₁ exceeded	Check connection
IH _i 2	Maximum value for I ₂ exceeded	Check connection
IH _i 3	Maximum value for I ₃ exceeded	Check connection
Sync	Frequency measuring error	Meter connected to direct voltage
CDN	Interface error	Check connection
ErrRGY	Meter defective	
cALb	Balancing (calibration) required	Send meter in for repair
ARALog	DC offset too high	
MEMErr	Memory error	
CErE	Calibration logbook	Replace meter

* In the case of meters with feature U3 (100...110V L-L) including TCP/IP or Modbus RTU bus connections (W4 and W7), background illumination and the bus connection are deactivated. The meter reading profile Z1 cannot be viewed as long as the error is pending. Meter functioning is otherwise unimpaired.

13 Repairs / Manufacturer's Guarantee

If your meter requires repair, please contact our service department (see reverse side of this folder).

Note

Loss of Warranty and Guarantee Claims

Unauthorized modification of the meter is prohibited. This also includes opening the meter. If it can be ascertained that the instrument has been opened by unauthorized personnel, no guarantee claims can be honored by the manufacturer with regard to personal safety, measuring accuracy, compliance with applicable safety measures or any consequential damages. If the manufacturer's seal is damaged or removed, all guarantee claims are rendered null and void.

The instruments are guaranteed for a period of 3 years after shipment. The manufacturer's guarantee covers materials and workmanship. Damages resulting from use for any other than the intended purpose or operating errors, as well as any and all consequential damages, are excluded.

14 Verification

The calibration period in Germany is 8 years. Verification by our state-approved test laboratory (EB-8) is possible at any time (see reverse side of this folder).

15 Disposal and Environmental Protection

The following comments refer specifically to the legal situation in the Federal Republic of Germany. Owners or end users who are subject to other national requirements are required to comply with the respectively applicable national requirements and to implement them correctly on site.

The symbol on the left depicting a crossed-out garbage can on wheels refers to the legal obligation of the owner or end user (German electrical and electronic equipment act ElektroG and German battery act BattG) not to dispose of used electrical equipment and batteries with unsorted municipal waste ("household trash").

Old devices, electrical or electronic accessories and depleted batteries used in Germany can be returned free of charge to Gossen Metrawatt GmbH or the service provider responsible for their disposal in compliance with applicable regulations, in particular packaging and hazardous goods laws. Further information can be found on our website.

16 CE Declaration

The instrument fulfills all requirements of applicable EU directives and national regulations. We confirm this with the CE mark. The CE declaration of conformity is available upon request (see link on title page).

Operating Overview Key

Keys	Function
[ENTER]	ENTER key (press briefly)
[ENTER] (Long)	ENTER key (press and hold)
[UP]	UP key (press briefly)

Abbreviations

CT	Transformation ratio, current
I _N	N conductor current (calculated)
S0	S0 pulse output
THD	Distortion component (for voltage and current)
VT	Transformation ratio, voltage

Features

M1	Multifunctional variant: Measurement of U, I, P, Q, S, PF, f, THD, I _N
M2	Measurement of reactive energy
M3	Multifunctional variant: Measurement of U, I, P, Q, S, PF, f, THD, I _N , reactive energy
Q1	Programmable transformation ratios
Q9	Fixed transformation ratios
V2/V4	Programmable S0
V9	Customer-specific S0 rate
W1 ... W7	Bus connections
Z1	Meter reading profile (only possible with bus)
Z2	Certified meter reading profile

