

## 1.1 Operational Indications

Indication	Description	Notes
Device OK	The device startup was successful.	Indication ON: Device ready Indication OFF: Device startup not successful or I/O boards detection failed
Battery Failure	Battery voltage < 2.7 V or no battery inserted	Indication ON: Battery failure The battery is checked during each device startup and once a day during operation. A possible battery failure is indicated only after the corresponding check.
Time Synchronization Error	Error during the time synchronization from the NTP server or fieldbus	Indication OFF: At least 1 time message was received during the set timer ( <b>Error indication after</b> ). The time stamp is set when the first valid time information or time synchronization is received. Indication ON: No time message was received during the set timer ( <b>Error indication after</b> ). The time stamp is set after the <b>Error indication after</b> timer has expired and no synchronization message was received. Parameter range: see chapter 1.7.1 Time Synchronization
	Error during internal time synchronization	Indication ON: RTC time invalid (during device start in case of battery failure) Indication OFF: After setting the clock via HTML
Default IP Address	The device has started with a default IP address after pressing the F4 button for more than 3 s during operation.	Indication ON: F4 was pressed and default IP is set in the device.
Primary NTP Server Error	Faulty or no response from the primary NTP server	Indication ON: Error Indication OFF: Valid time messages have been received for a period of 10 min Only for time synchronization via Ethernet NTP
Secondary NTP Server Error	Faulty or no response from the secondary NTP server	Indication ON: Error Indication OFF: Valid time messages have been received for a period of 10 min Only for time synchronization via Ethernet NTP
Daylight Saving Time	Switching between daylight saving time/standard time	Indication ON: Daylight saving time Indication OFF: Standard time
Ethernet Link Error	For Ethernet function = Switch: No Ethernet connection on Ch1 and Ch2 For Ethernet function = Two interfaces: No Ethernet connection on Ch1	Indication ON: Error Indication OFF: Ethernet link recognized

Indication	Description	Notes
Ethernet Link 2 Error	For Ethernet Function = Switch: Irrelevant For Ethernet Function = Two interfaces: No Ethernet connection on Ch2	Indication ON: Error Indication OFF: Ethernet link recognized
Modbus TCP OK (Modbus TCP Server)	At least 1 Modbus TCP server connection has received Modbus messages.	Indication ON: At least 1 Modbus message was received during the set communication supervision time. The time stamp is set when the first valid message is received. Indication OFF: No Modbus message was received during the set communication supervision time
Modbus RTU Master OK	All configured Modbus slave devices respond to request telegrams.	Indication ON: If all configured Modbus slave devices respond successfully to request telegrams. Indication OFF: If at least one Modbus slave device does not respond to a request telegram or if at least one Modbus slave device responds with a Modbus exception code. For more information, see Communication Manual SICAM Q200 and Device Manual SICAM Q200.
IEC 61850 Communication OK	IEC 61850 server is ready/not ready to accept IEC 61850 client connections.	Indication ON: IEC 61850 server is ready to accept IEC 61850 client connections. Indication OFF: IEC 61850 server is not ready to accept IEC 61850 client connections.
Modbus Serial OK (Modbus RTU (Slave))	The Modbus serial communication has received a valid Modbus message.	Indication ON: At least 1 serial message was received during the set communication supervision time. The time stamp is set when the first valid message is received. Indication OFF: No serial message was received during the set communication supervision time.
Settings Load	Starting to change the parameters of the passive set of parameters.	Indication ON: Start of changes Indication OFF: Changes complete
Settings Check	The passive set of parameters is to be activated; the internal parameter check is running.	Indication ON: Check started Indication OFF: Check complete
Settings Activate	The passive set of parameters is enabled and the device works with these parameters.	Indication ON: Activation started Indication OFF: Activation complete
Limit Violation x	Indication that a parameterized limiting value has been violated	Indication ON: The limit of the monitored measured value has been violated or no measured value is parameterized as input of the limiting value. Indication OFF: The limit of the monitored measured value is not violated. Message invalid: The monitored measured value is invalid (for example, frequency at $V < 15\%$ of $V_{rated}$ ). x = 1 to 16

Indication	Description	Notes
Indication x from Remote	Status of any indications which can be set for control via communication.	Indication ON Indication OFF Message invalid: Not yet updated via the communication or again invalid via the communication. x = 1 to 14
Binary Input x-S Binary Input x-R	Indication of the logic state of the binary input (ON/OFF)	Indication invalid: in startup not updated Binary input high: ON (OFF if inverted) Binary input low: OFF (ON if inverted) If the binary input has not been set to a function (load profile, tariff TOU), a change is logged as an operational indication. x = 1 to 3
Rotating Field Clockwise	Indication of rotation voltage	Indication ON: Phase sequence Va-Vb-Vc, rotation clockwise Indication OFF: Phase sequence Va-Vc-Vb, (2 phases interchanged); rotation counter-clockwise Indication invalid: Direction of rotation cannot be calculated (for example, no voltage applied)
Group indication x	Up to 4 single-point indications can be linked logically and combined to a group indication.	A total of 4 group indications can be parameterized. x = 1 to 4
Voltage Event Available	Indication of a supply-voltage event	Overvoltage, undervoltage, frequency interruption
Frequency Event Available	Indication of a frequency event	Overfrequency or underfrequency
Volt. Unbalance Event Available	Indication of a voltage-unbalance event	Voltage unbalance
SD Card Error	Indication of an SD card error	SD card defective or read/write error
Load Profile Period Closed	Indication that a period has been closed.	Only <b>Indication on</b> is logged.
Load Profile Synchr. Period	Indication that a synchronization signal was received.	Only <b>Indication on</b> is logged.
Load Profile Tariff x	Indication that the tariff x has been set.	Only <b>Indication on</b> is logged. x = 1 to 4
New MSV event made	Indication of a new MSV event	–
Power Supply Failure	The power supply of the device dropped below the lower limit.	Indication only is logged in the <b>Operational log</b> ; can not be routed as input for automation functions or to communication.

## 1.2 Process Connections

### 1.2.1 AC Measurement

Parameter	Default Settings	Setting Range
Rated frequency	50 Hz	50 Hz ( $\pm 7.5$ Hz) 60 Hz ( $\pm 9$ Hz)
Network type	4-wire, 3-phase, unbalanced	1-phase network 3-wire, 3-phase balanced 3-wire, 3-phase, unbalanced (2 * I) 3-wire, 3-phase, unbalanced (3 * I) 4-wire, 3-phase, balanced 4-wire, 3-phase, unbalanced
Primary nominal voltage (Phase-N/PE)	AC 230.00 V	AC 57.73 V to 400 V (autorange) IEC 61000-4-30 Class A: <ul style="list-style-type: none"> <li>Up to AC 230 V: 200 % overvoltage</li> <li>&gt; AC 230 V to 400 V: 200 % to 15 % overvoltage</li> </ul> UL conditions: <ul style="list-style-type: none"> <li>Up to AC 170 V: 200 % overvoltage</li> <li>&gt; AC 170 V to 300 V: 200 % to 15 % overvoltage</li> </ul>
Voltage transformer	No	Yes No
Primary rated voltage	AC 10 000 V	AC 100.0 V to AC 1 000 000.0 V
Secondary rated voltage	AC 100 V	AC 1.0 V to AC 460.0 V
Current transformer	No	Yes No
Primary rated current	AC 1 000.0 A	AC 1.0 A to AC 100 000.0 A
Secondary rated current	AC 1.0 A	AC 1.0 A to 10.0 A
Zero point suppression	0.3 % (of Vrated, Irated)	0.0 % to 10.0 %
Voltage harmonics unit	%	% V
Measurement aggregation	-none-	-none- 150-cycle interval
Flicker lamp model <sup>1</sup>	230 V	230 V 120 V

<sup>1</sup> Only parameterizable for the following network types: 1P2W, 3P3W unbal, 3P4W unbal

## 1.2.2 Binary Inputs S and R

Settings for Binary Inputs S and R

Parameter	Default Settings	Setting Range
Threshold voltage	19 V	19 V 88 V 176 V
Software filter time (only settable if <i>Routed as: Status information</i> has been set)	1 (* 2 ms)	2 ms to 120 000 ms (settable in 2-ms increments)
Value	For example for terminal S11/12: Binary input 3-S	Max. 31 characters

## 1.2.3 Binary Outputs

Settings for Binary Outputs

Parameter	Default Settings	Setting Range
Source type	Indication	Indication Energy counter
<b>Source Type Indication</b>		
Indication <sup>2</sup>	-none-	Acc. to list box
BO description (can be set for all binary outputs individually)	For example for terminal S1/2: Binary output 1-S	Max. 31 characters
Source inverted (can be set individually for all relay outputs)	No	No Yes
Operating mode <sup>3</sup> (can be set individually for all relay outputs)	Persistent	Persistent Persistent with fail safe Pulse Pulse with retrigger
Output time for pulse operating mode (setting only possible if operating modes <i>Pulse</i> and <i>Pulse with retrigger</i> )	20 (* 10 ms)	50 ms to 3 600 000 ms
<b>Source Type Energy Counter</b>		
Energy counter <sup>2</sup>	-none-	Acc. to list box

<sup>2</sup> If you select **-none-** as the source of an **indication** or **energy counter**, the corresponding binary output is inactive.

<sup>3</sup> If you have selected one of the 2 **Pulse** types in the **Operating mode** list box, enter an output time x (in x \*10 ms) in the **Output time for pulse operating mode** field.

Parameter	Default Settings	Setting Range
Energy increase per pulse	1.0 Wh	0.1 Wh/VAh/varh to 1 000 000 Wh/VAh/varh
Output time for pulse operating mode	20 * 10 ms = 200 ms	50 ms to 3 600 000 ms

## 1.2.4 LEDs

Parameter	Default Settings	Setting Range
ERROR	-none-	-none- Battery failure Ethernet link error Time synchronization error Primary NTP server error Secondary NTP server SD card error
H1 H2 H3 H4  Only the indications for the parameterization of the binary outputs are displayed which can be used according to the current device settings. Indications which are read by Modbus slave devices are available in the list box if they are parameterized in Modbus Master Mapping.	-none-	Acc. to list box Limit violation, group indication and binary inputs: Designation can be changed during parameterization.
Indication inverted	No	No Yes

## 1.3 Automation Functions

### 1.3.1 Limit Violation 1-8 and 9-16

Parameter	Default Settings	Setting Range
Measurement	-none-	Measurement value selection list depending on network type
Limit	0.00	-1 000 000 000 to 1 000 000 000 (unit)
Limit type	Lower	Lower Upper
Hysteresis (%)	1.0	0.0 to 10.0
Violation indication	Limit Violation x (x = 1 to 16)	The name of the limiting value indication is customizable; max. 31 characters.

### 1.3.2 Group Indications 1-4

Parameter	Default Settings	Setting Range
Source  Only the indications for the parameterization of the binary outputs are displayed which can be used according to the current device settings. Indications which are read by Modbus slave devices are available in the list box if they are parameterized in the Modbus Master Mapping.	-none-	Acc. to list box Limit violation, group indication and binary inputs: Designation can be changed during the parameterization.
Source inverted	No	No Yes
Logic operation	NONE	NONE OR AND
Group indication name	Group Indication x (x = 1 to 4)	Any, max. 31 characters

## 1.4 Display

### 1.4.1 Display Settings

Settings for Display

Parameter	Default Setting	Setting Options
Contrast	8	0 to 10
Time until dimmed	10	1 min to 99 min
Refresh time	1000	330 ms to 3000 ms
Inverse display	No	No Yes
Phase label	(L1, L2, L3)	(L1, L2, L3) (a, b, c)

### 1.4.2 User-Defined Screen

Settings for User-Defined Screens

Parameter	Default Settings	Setting Range
Screen type	-none- <sup>4</sup>	-none- 2 measured values, numerical 4 measured values, numerical 2 measured values, graphical + numerical 3 measured values, graphical + numerical
Screen name	USER_SCREEN_x (x = 1 to 4)	You can update and edit it directly; max. 18 characters
2 measured values, numerical: - Display 1, numerical - Display 2, numerical	-none-	Measuring-values selection depending on network type
4 measured values, numerical: - Display 1, numerical - Display 2, numerical - Display 3, numerical - Display 4, numerical	-none-	
2 measured values, graphical and numerical: - Display 1, graph./num. - Display 2, graph./num.	-none-	

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<sup>4</sup> If there is no selection the displays explained in the following do not exist.



Parameter	Default Settings	Setting Range
3 measured values, graphical and numerical: - Display 1, graph./num. - Display 2, graph./num. - Display 3, graph./num.	-none-	
Display x, graph./num. (x = 1 to 3) - Min value - Max value	Unit according to measuring values 1.0 10.0	The minimum and maximum value are defined by the selected parameters.

## 1.5 Energy Management

### 1.5.1 Load Profile

Parameter	Default Settings	Setting Range
Subperiod time	15 minutes	1 min to 6 min in 1-min steps, 10 min, 12 min, 15 min, 20 min, 30 min, 60 min
Number of subperiods	1	1 to 5
Synchronization source	Internal clock	None Protocol Binary input 1 Binary input 2 Internal clock
Type reactive power used	Q1	Q1 Qn Qtot

### 1.5.2 Tariffs (TOU)

Parameter	Default Settings	Setting Range
Synchronization source	Protocol	Protocol Binary input x-S Binary input x-R (x = 1 to 3)

## 1.6 Recording and Reporting

### 1.6.1 Event Recorders

Parameter	Default Setting	Default Options
<b>Voltage event</b>		
Reference voltage	Primary nominal voltage ( $V_n$ )	Sliding reference voltage ( $V_{sr}$ ) Primary nominal voltage ( $V_n$ )
Swell threshold <sup>5</sup>	110 %	105 % to 140 %, increments of 5 %
Dip threshold <sup>5</sup>	90 %	75 % to 95 %, increments of 5 %
Interruption threshold	5 %	1 %, 2 %, 3 %, 5 %, 8 %, 10 %
Hysteresis	2 %	1 % to 6 %, increments of 1 %
Event detection mode <sup>6</sup>	ph-N	ph-N ph-ph
<b>RVC event</b>		
RVC threshold	6 %	1 %, 2 %, 3 %, 4 %, 5 %, 6 %
RVC hysteresis <sup>7</sup>	3 %	0.5 %, 1 %, 1.5 %, 2 %, 2.5 %, 3 %
RVC event detection mode <sup>8</sup>	ph-N	ph-N ph-ph

### 1.6.2 Trigger Management

Settings for Waveform Recorder and Trigger Management

Parameter	Default Setting	Setting Options
<b>Voltage trigger limits</b>		
Trigger active	no	no yes
Tolerance unit	Percentage	Percentage Numerical
Lower threshold	90.00 % of the primary nominal voltage	0.00 % to 99.99 % of the primary nominal voltage 0.00 V to the primary nominal voltage <sup>9</sup>

<sup>5</sup> According to EN 50160 standard in the PQ report, the default settings of dip and swell (90 % and 110 %) are recommended.

<sup>6</sup> Only for **3P4W (3-phase/4-wire) unbalanced** network types, you can select the **ph-N** or **ph-ph** option as event detection mode.

<sup>7</sup> According to IEC 61000-4-30 Edition 3.0, RVC hysteresis is recommended to be half of the threshold.

<sup>8</sup> **RVC event detection mode** will always be synchronized with the setting **Event detection mode**.

<sup>9</sup> When Tolerance unit is selected as numerical, the threshold is in number.

Parameter	Default Setting	Setting Options
Upper threshold	110.00 % of the primary nominal voltage	100.00 % to 200.00 % of the primary nominal voltage 1 to 2 times the primary nominal voltage <sup>9</sup>
Hysteresis	2.00 % of the primary nominal voltage	0.00 % to 50.00 % of the primary nominal voltage
<b>Current trigger limits</b>		
Trigger active	no	no yes
Tolerance unit	Percentage	Percentage Numerical
Lower threshold	90.00 % of the nominal current I <sub>n</sub>	5.00 % to 200.00 % of the nominal current I <sub>n</sub> 0.00 A to 1 000 000.00 A <sup>9</sup>
Upper threshold	110.00 % of the nominal current I <sub>n</sub>	5.00 % to 200.00 % of the nominal current I <sub>n</sub> 0.00 A to 1 000 000.00 A <sup>9</sup>
Hysteresis	2.00 % of the nominal current I <sub>n</sub>	0.00 % to 50.00 % of the nominal current I <sub>n</sub>
<b>Configuration binary trigger</b>		
Trigger active	no	no yes
Trigger source	Binary Input 1-S	Indication 1 from Remote Indication 2 from Remote Binary Input 1-S Binary Input 2-S Binary Input 3-S Binary Input 1-R Binary Input 2-R Binary Input 3-R
Trigger value	ON	OFF ON
<b>Waveform capture setting</b>		
Pretrigger time	0.2 s	0.1 s to 0.5 s, step: 0.1 s
Recording time	2.0 s	0.5 s to 10.0 s, step: 0.5 s

### 1.6.3 Measurement Recorder

Settings from Measurement Recorder

Parameter	Default Setting	Setting Options
Template	IEC 61000-4-30	IEC 61000-4-30 Ed. 3 All measurement User-defined
Aggregation interval <sup>10</sup>	10 min	1 min, 10 min (30 s, 15 min, 30 min, 1 h and 2 h available as of firmware version 2.0)
File generation interval <sup>11</sup>	24 h	2 h, 24 h (1 h, 4 h, 6 h and 12 h available as of firmware version 2.0)

### 1.6.4 Trend Recorder

Settings for Trend Recorder

Parameter	Default Setting	Setting Options
Tolerance number	Percentage: 3 % of the primary nominal voltage	1 % to 5 %, increments of 1 %
Maximum recording interval	2 h	2 h, 24 h

### 1.6.5 Memory Management

Default Settings and Setting Ranges

Parameter	Default Setting	Setting Range
Event recorder	10000 records	5000 records to 20000 records
Waveform recorder	21.14 % (the number of records depends on the waveform record time)	Min. 10.58 %
Measurement recorder	42.54 % (the recording time depends on the aggregation interval)	Min. 13.16 %
Trend recorder	6.45 %	Min. 3.23 %
Transient recorder (wave)	10.87 %	Min 5.44 % in the device.

<sup>10</sup> For short-term flicker, the aggregation interval is fixed to 10 min; for long-term flicker, the aggregation interval is fixed to 2 h; for **10-s frequency**, the aggregation interval is fixed to 10 s.

<sup>11</sup> For 30 s aggregation, the file generate interval is fixed to 1 h; for 1-min aggregation, the file generate interval is fixed to 2 h; for other aggregations, the file generate interval is optional.

Parameter	Default Setting	Setting Range
Free memory	29.73 %	

## 1.6.6 Mains Signaling Voltage



### NOTE

Only parameterizable for the following network types: 1P2W, 3P3W unbal, 3P4W unbal.

Settings for Mains Signaling Voltage

Parameter	Default Settings	Setting Range
<b>Mains Signaling Voltage Measurement</b>		
MSV active	No	No Yes
No. of MSV frequencies	1 frequency	1 frequency 2 frequencies
Frequency 1	216.60 Hz	100 Hz to 3 kHz
Frequency 2	1060.00 Hz	100 Hz to 3 kHz
<b>Mains Signaling Voltage Capture Setting</b>		
Detection threshold	1.00 % of Un	From 1 % to 15 % of Un

## 1.6.7 Report Configuration

Parameter	Default Setting	Default Options/Description
<b>General Information</b>		
Company: Department: Supervisor: Inspector: Location: Comment:	–	Any text displayed in the printout of the power-quality report Max. 32 characters
<b>Power Quality report</b>		
Evaluation mode according to	EN 50160 LV	EN 50160 LV EN 50160 MV EN 50160 HV User-defined
Flagging acc. to IEC 61000-4-30	No	No Yes
Power frequency	99.5 % of the measurement should be within a deviation of -1.0 % to 1.0 %	The default setting is fixed for the template of EN 50160 LV,

Parameter		Default Setting	Default Options/Description
		100 % of the measurement should be within a deviation of -6.0 % to 4.0 %	EN 50160 MV, and EN 50160 HV. You can edit the limiting values in the text box directly under the user-defined evaluation mode.
Power-supply voltage magnitude		95 % of the measurement should be within a deviation of -10.0 % to 10.0 %	
		100 % of the measurement should be within a deviation of -15.0 % to 10.0 %	
Flicker severity		95 % of the measurement should be less than 1.0	
Voltage unbalance <sup>12</sup>		95 % of the measurement should be less than 2.0 %	
		100 % of the measurement should be less than 3.0 %	
Total harmonic distortion (THDS)		95 % of the measurement should be less than 8.0 %	
Voltage event interruptions		Short interruption until 1-s duration	
		Short interruption until 3-min duration	
		Long interruption longer than 3-min duration	
Harmonic voltages	Odd harmonics	H3: 5.0, H5: 6.0, H7: 5.0, H9: 1.5, H11: 3.5, H13: 3.0, H15: 0.5, H17: 2.0, H19: 1.5, H21: 0.5, H23: 1.5, H25: 1.5	
	Even harmonics	H2: 2.0, H4: 1.0, H6: 0.5, H8: 0.5, H10: 0.5, H12: 0.5, H14: 0.5, H16: 0.5, H18: 0.5, H20: 0.5, H22: 0.5, H24: 0.5	

## 1.6.8 Start and Stop of Recorders

### Settings for Start and Stop of Recorders

Parameter	Default Settings	Setting Range
Start record option	Start next 10th minute	Start next minute Start next 10th minute Start immediately Start next hour Start next day
Start time	–	Display of the start time in: Depends on the configuration of date/time format.
Recording status	–	Not settable Status display of recorder started or recorder stopped

<sup>12</sup> According to EN 50160, up to 3 % unbalance can occur in 3-wire networks in areas with many 1-wire and 2-wire connections.

## 1.7 Administration

### 1.7.1 Time Synchronization

Parameter	Default Settings	Setting Range
Source time synchronization	Internal	Internal Ethernet NTP Fieldbus
Time zone offset to UTC	+00:00	-12 to +13 (hours) (in increments of 0.5 h)
Daylight Saving Time switch-over	Yes	No Yes
DST offset	+01:00	0 to + 2 (hours) (in increments of 0.5 h)
Start of DST	March Last week	January to December First week Second week Third week Fourth week Last week
	Sunday 02:00 AM	Sunday to Saturday 0:00 to 23:00 (full hour)
End of DST	October Last week	January to December First week Second week Third week Fourth week Last week
	Sunday 03:00 AM	Sunday to Saturday 0:00 to 23:00 (full hour)
<b>Additional Parameters if the Source is Ethernet NTP (Modbus TCP and IEC 61850)</b>		
Primary NTP server IP Address	192.168.0.254	Any
Secondary NTP server IP Address	0.0.0.0	Any No polling of the NTP server if 0.0.0.0 was entered
Error indication after	10 min	2 min to 120 min
<b>Additional Parameters if Source is Fieldbus</b>		
Error indication after	10 min	2 min to 120 min



## 1.7.2 Ethernet Communication

Parameter	Default Settings	Setting Range	Description
<b>Function</b>			
Function <sup>13</sup>	Switch	2 interfaces Switch	Configuration of both Ethernet ports: 2 interfaces: 2 Ethernet interfaces in 2 networks Switch: 2 switched ports in 1 network
<b>Ethernet Channel 1</b>			
DHCP <sup>13</sup>	No	No Yes	Determines whether DHCP is used for automatic receiving of network parameters instead of fixed network configuration settings DHCP can only be used if IEC 61850 is disabled.
IP address <sup>13</sup>	192.168.0.55	Any	Network configuration for Ethernet Channel 1 (only available for Channel 1 DHCP = no)
Subnet mask <sup>13</sup>	255.255.255.0		
Default gateway <sup>13</sup>	192.168.0.1		
<b>Ethernet Channel 2</b>			
DHCP <sup>13</sup>	No	No Yes	Determines whether DHCP is used for automatic receiving of network parameters instead of fixed network configuration settings DHCP can only be used if IEC 61850 is disabled.
IP address <sup>13</sup>	192.168.1.55	Any	Network configuration for Ethernet Channel 2 (only available for Channel 2 DHCP = no)
Subnet mask <sup>13</sup>	255.255.255.0		
Default gateway <sup>13</sup>	192.168.1.1		
<b>Protocol Assignments</b>			
IEC 61850 <sup>13</sup>	None	Ch1 Ch2 Ch1, Ch2 None	Activation and assignment of communication protocol IEC 61850 to the Ethernet channels (only available for SICAM Q200 devices with IEC 61850 communication option acc. to order number) The options Ch1 and Ch 2 only are available for function = <b>Two interfaces</b> . IEC 61850 can only be used with fixed IP addresses (no DHCP).
Modbus TCP	Ch1	Ch1 Ch2 Ch1, Ch2 None	Activation and assignment of communication protocol Modbus TCP to the Ethernet channels The options Ch1 and Ch 2 only are available for function = <b>Two interfaces</b> .

<sup>13</sup> After the parameter changes have been enabled, the device will be reset.

Parameter	Default Settings	Setting Range	Description
HTTP <sup>13</sup>	Ch1, Ch2	Ch1 Ch2 Ch1, Ch2	Activation and assignment of HTTP communication to the Ethernet channels The options Ch1 and Ch 2 only are available for function = <b>Two interfaces</b> . Cannot be completely deactivated in order to ensure access to the device for parameterization.
SNMP <sup>13</sup>	none	Ch1 Ch2 Ch1, Ch2 none	Activation and assignment of SNMP communication to the Ethernet channels The options Ch1 and Ch 2 only are available for function = <b>Two interfaces</b> .

### 1.7.3 Protocol IEC 61850

Settings for IEC 61850

Parameter	Default Settings	Setting Range
IED Name	SICAM_Q200_01	Any, max. 60 characters Only a-z, A-Z, "_", 0-9 are permitted The first character must be an alpha character.
Voltage - Dead band	5 %	1 % to 5 %, in 1-% steps
Current - Dead band	5 %	1 % to 5 %, in 1-% steps
Voltage unbalance - Dead band	5 %	1 % to 5 %, in 1-% steps
Current unbalance - Dead band	5 %	1 % to 5 %, in 1-% steps
Power - Dead band	5 %	1 % to 5 %, in 1-% steps
Power factor - Dead band	5 %	2 % to 5 %, in 1-% steps
Frequency - Dead band	0.05 %	0.02 % 0.05 %

## 1.7.4 Protocol Modbus TCP and Modbus TCP/RTU Gateway

### Settings for Modbus TCP

Parameter	Default Settings	Setting Range
Use a user-port number <sup>14</sup>	No	No Yes
User-port number <sup>14</sup> (can only be set when Use a user-port number is parameterized with <b>yes</b> )	10000	10 000 to 65 535
Access rights for user port (can only be set when Use a user-port number is parameterized with <b>yes</b> )	Full	Full Read only
Access rights for port 502	Full	Full Read only
Keep Alive time	10 s	0 s = switch off 1 s to 65 535 s
Communication supervision time	600 (* 100 ms)	0 s = none 100 ms to 6 553 400 ms

### Settings for Modbus TCP/RTU Gateway

Parameter	Default Settings	Setting Range
Activated	No	No Yes
Unit ID of this device	255	1 to 255
Retry limit <sup>15</sup>	2	0 to 10
Response timeout <sup>15</sup>	10 (* 10 ms)	(1 to 6000) * 10 ms = 10 ms to 60 s

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<sup>14</sup> After enabling the parameter changes, any currently active Modbus TCP connections will be closed. The Modbus TCP client later must reopen these connections.

<sup>15</sup> These values are necessary if the Modbus slave device has not been configured for the requested Unit ID. If a Modbus slave device was configured, its values are used.

## 1.7.5 Protocol SNMP

Settings for SNMPv3

Settings	Default Settings	Setting Range
User name (User name for SNMPv3 access)	Empty, for example: not set	Up to 24 characters <ul style="list-style-type: none"> <li>Numbers 0 to 9</li> <li>Small and capital latin letters</li> <li>Basic special characters</li> </ul>
Authentication password		8 to 24 characters <ul style="list-style-type: none"> <li>Numbers 0 to 9</li> <li>Small and capital latin letters</li> <li>Basic special characters</li> </ul>
Privacy password		8 to 24 characters <ul style="list-style-type: none"> <li>Numbers 0 to 9</li> <li>Small and capital latin letters</li> <li>Basic special characters</li> </ul>

## 1.7.6 Communication Serial

Parameter	Default Settings	Setting Range
Bus protocol	Modbus RTU	-none- Modbus RTU Modbus RTU Master
<b>Bus Protocol Modbus RTU (Slave)</b>		
Device address	1	1 to 247
Baud rate	19 200 bit/s	1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19 200 bit/s, 38 400 bit/s, 57 600 bit/s, 115 200 bit/s
Parity	Even	None, 1 stop bit Even Odd None, 2 stop bit
Access rights	Full	Full Read only
Communication supervision time	600 * 100 ms	0 s = none 100 ms to 6 553 400 ms
<b>Bus Protocol Modbus RTU Master</b>		
Baud rate	19 200 bit/s	1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19 200 bit/s, 38 400 bit/s, 57 600 bit/s, 115 200 bit/s
Parity	Even	None, 1 stop bit Even Odd None, 2 stop bit

Parameter	Default Settings	Setting Range
Additional inter-character timeout	1 ms	<p>0 ms to 100 ms</p> <p>The Modbus specification requires that the individual characters of a serial Modbus RTU telegram have to be transmitted successively with a maximum character gap of 1.5 character times (or max. 750 µs for Baud rates &gt;19 200 bit/s). Longer silent intervals between the characters are interpreted as telegram end. A longer gap between the characters can be tolerated with this parameter. Note that this also causes longer cycle times.</p> <p>If at least one SICAM P50 device is connected to the bus, at least the following values have to be set for additional inter-character timeout:</p> <p>1200 bit/s, 2400 bit/s: 0  4800 bit/s, 9600 bit/s: 2  19 200 bit/s: 3 38 400 bit/s: 4  57 600 bit/s, 115 200 bit/s: 6</p>
Maximum 0x/1x register gap	40	0 to 200
Maximum 3x/4x register gap	10	Maximum number of <b>not-mapped</b> registers which are being requested between mapped registers in 1 request telegram.

## 1.7.7 Serial Communication

### 1.7.7.1 Basic Settings

Parameter	Default Settings	Setting Range
Name	Modbus slave device 1	Max. 31 characters
Activated	No	No Yes (= Activation of the option field): The buttons for parameterization of the mapping data are also activated for the slave device here.
Device address / Unit ID (Modbus slave device address)	1	1 to 247 Address corresponds to the unit ID in the Modbus TCP telegram with simultaneous use of the Modbus gateway function.
Response timeout	10 (*10 ms)	1 to 6000 * 10 ms (10 ms to 60 s)
Retry limit	2	0 to 10 (0 = no request retries) Number of request retries after expiration of <b>Response timeout</b> before a communication error for the Modbus slave is identified.

Parameter	Default Settings	Setting Range
Scan cycle for measured values	50 (*10 ms)	0 to 36 0000 * 10 ms (10 ms to 1 h) 0 = Each request cycle Minimum time difference between the measured-value requests.
Scan cycle for indications	0 (*10 ms)	0 to 36 0000 * 10 ms (10 ms to 1 h) 0 = Each request cycle Minimum time difference between the measured-value requests.
Scan cycle on error	5 s	1 to 3600 s ( 1 s to 1 h) Retry cycle for sending request telegrams if the retry limits are exceeded or in the case of error responses.

#### 1.7.7.2 Mapping – Measured Values 1 - 15

Parameter	Default Settings	Setting Range
Name	MV x Slv 1 (x = 1 to 15)	Max. 31 characters Max. 10 characters if the name is also to be displayed on the device display.
Unit <b>Frequency measuring values:</b> If a frequency measured value (unit: Hz) has been parameterized without a multiplier (multiplier: -), an additional check is made whether the resulting value is in the range of 15 Hz to 65 Hz. Measured values outside this range are marked as invalid.  <b>Factors:</b> Selecting a multiplier for the following units is not recommended and will be rejected: -none- ° °C °F %	Multiplier: -  Unit: -none-	m (milli) c (centi) d (deci) - h (hecto) k (kilo) M (Mega) G (Giga)  -none- m kg s A °C V Hz W Pa m <sup>2</sup> m <sup>3</sup> VA var ° Wh VAh varh % °F

Parameter	Default Settings	Setting Range
Register type	-none-	-none- Input registers Holding registers For <b>-none-</b> , the assignment is ignored and the corresponding measuring value cannot be selected for other functions.
Data format on bus	Float32 (2 registers)	Float32 (2 registers) Int16 (1 register) Int16_Ung8000h (1 register) UInt16 (1 register) UInt32 (2 registers)
Register number	1	1 to 65 535
Scaling factor	1.000	Any float value 0.00: resulting measured value = 0.00

#### Data Format on Bus

Data Format on Bus	Description	Setting Range	Invalid Recognition	Used by (Example)
Float32 (2 registers)	IEEE Float value	-10 <sup>38</sup> to +10 <sup>38</sup>	NaN = invalid INF = overflow	SENTRON PAC3x00, SICAM AI 7XV5674, SICAM T 7KG966, SICAM P50 7KG775
Int16 (1 register)	16 bit signed integer	- 32 768 to +32 768	none	SENTRON 3WL/3VL SICAM P50 7KG775
Int16_Ung8000 (1 register)	16 bit signed integer	-32768 bis +32768	-32768 (8000h) = invalid	SIPROTEC 4
UInt16 (1 register)	16 bit integer, ≥ 0	0 to +65 535	none	SENTRON 3WL/3VL
UInt32 (2 registers)	32 bit integer, ≥ 0	0 to +4 294 967 295	none	SIPROTEC 4, SENTRON 3WL/3VL

#### 1.7.7.3 Mapping – Indications

Parameter	Default Settings	Setting Range
Name	Indication x Slv 1 (x = 1 to 15)	Max. 31 characters

Parameter	Default Settings	Setting Range
Register type	-none-	-none- Coil status registers Input status registers Input registers Holding registers For <b>-none-</b> , the assignment is ignored and the corresponding indication cannot be selected for other functions.
Data format on bus	1 Bit	1 Bit 1 Bit in UInt32 Data format which is used to transmit the indication via Modbus
Register number	1	1 to 65 535
Bit offset (only relevant for register types Input register or Holding register)	0	0 to 15 (for data format 1 Bit) 0 to 31 (for data format 1 Bit in UInt32) (depending on selection for <b>Data format on bus</b> )

#### Data format on Bus

Data Format on Bus	Description	Setting Range	Invalid Recognition	Used by (Example)
1 bit	1 bit (for all register types; additionally select <b>Bit offset</b> for the Input register and the Holding register)	0 = of 1 = on	None	SICAM P50 7KG775, SENTRON 3WL/3VL, SIPROTEC4
1 bit in UInt32	1 bit in 2 successive Input registers or Holding registers which have to be read together.	0 = of 1 = on	None	SENTRON PAC3x00

### 1.7.8 Device and Language

Parameter	Default Settings	Setting Range
Device name	SICAM_xxx	Max. 31 ASCII characters Max. 16 non-ASCII characters
Language	English (US)	ENGLISH (US) User language acc. to <b>User language preselection</b> : DEUTSCH (DE) or CHINESE (CN)



Parameter	Default Settings	Setting Range
Date/time format	YYYY-MM-DD, Time with 24 hours	YYYY-MM-DD, time with 24 hours YYYY-MM-DD, time 12 h AM/PM DD-MM-YYYY, time with 24 hours DD-MM-YYYY, time 12 h AM/PM MM/DD/YYYY, time with 24 hours MM/DD/YYYY, time 12 h AM/PM

## 1.7.9 Password Change

### Settings for Passwords

Password	Default Settings	Setting Range
Logon activation View data password for Web UI Log-in and Session time-out (min)	yes 99999999 and 10 [min]	<b>Logon activation:</b> To disable the logon feature, select <b>no</b> . To enable the logon feature, select <b>yes</b> . <b>Password:</b> 8 to 24 characters <ul style="list-style-type: none"> <li>• Numbers 0 to 9</li> <li>• Small and capital latin letters</li> <li>• Basic special characters</li> </ul> <b>Session time-out:</b> 0 min (no time-out) to 1440 min (1 day) If the device restarts, you must log on again.
Configuration change password	00000000	8 to 24 characters <ul style="list-style-type: none"> <li>• Numbers 0 to 9</li> <li>• Small and capital latin letters</li> <li>• Basic special characters</li> </ul>
Force values password	11111111	
Firmware change password	22222222	
HMI password	Use HMI password: no	<ul style="list-style-type: none"> <li>• No</li> <li>• Yes</li> </ul>
	New password: empty	6 numbers Only numbers 0 to 9
Access management password	33333333	8 to 24 characters <ul style="list-style-type: none"> <li>• Numbers 0 to 9</li> <li>• Small and capital latin letters</li> <li>• Basic special characters</li> </ul>

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Although the Lesser General Public License is less protective of the

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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