

## Clamp meters



### ■ CMT-80

Automatic tester

#### Characteristics

- Trouble-free, automatic measurement of current strength, voltage and resistance
- Compact design for measuring in tight spaces
- Low impedance rules out measurement of stray voltage or so called „ghost voltages“
- 400 A AC, 600 V AC/DC measurements
- Data Hold function for recording important measurement results
- Longer battery service life due to automatic shut-off

#### Technical Data

Voltage measurement:	AC V:1.3-600.0 V; DC V: 1.8-600,0; -0.6 to -600.0 V
Current measurement:	AC A: 0,6-400,0
Resistance:	2000 $\Omega$ with acoustic continuity signal
Display	LCD (display range 6000)
Measuring category:	CAT III, 600 V
Plier opening	27 mm

Item		Part No.	
CMT-80 Automatic tester		<b>50077350</b>	
Scope of supply	Description	Part No.	Page
TC-5	Nylon carry bag with belt loop	50075888	662
	Test leads	50113720	

**CM Series in detail**


Part No. Catalogue No.	50118650 CM-330	52022030 CM-410	50075934 CM-600	50076647 CM-800	50076990 CM-900	50077325 CM-1300	50077988 CM-1500
True effective value							
DC A (A max.)					600		1000
Maximum resolution (A)					0,1		0,1
Greatest accuracy (%)					1,2		1,2
AC A (A max.)	400	400	600	600	600	1000	1000
Maximum resolution (A)	0,01	0,1	0,1	0,1	0,1	0,1	0,1
Greatest accuracy (%)	2,0	1,9	1,9	1,9	1,9	1,9	1,9
DC V (V max.)		600		600	600	1000	1000
Maximum resolution (V)		0,1		0,1	0,1	0,1	0,1
Greatest accuracy (%)		1,0		0,7	0,7	0,7	0,7
AC A (A max.)		600	600	600	600	750	750
Maximum resolution (V)		0,1	1	0,1	0,1	0,1	0,1
Greatest accuracy (%)		1,0	1,2	1,0	1,0	1,0	1,0
Resistance ( $\Omega$ )		20M	2000 $\Omega$	400 $\Omega$	400 $\Omega$	400 $\Omega$	400 $\Omega$
Maximum resolution ( $\Omega$ )		0,1	1	0,1	0,1	0,1	0,1
Greatest accuracy (%)		0,7	1,5	1,0	1,0	1,0	1,0
Acoustic continuity check		•	•	•	•	•	•
Frequency				•	•	•	•
Frequency threshold value (Hz)	50-60	50-500	40-500	50-400	50-500	50-400	50-500
Plier opening	30 mm	27 mm	35 mm	34 mm	35 mm	51 mm	51 mm
Display type	Digital	Digital	Digital	Digital	Digital	Digital	Digital
Display of updating rate (x/s)	25	1,5	4	2,5	2,5	2,5	2,5
Display range	2000	2000	2000	4000	4000	4000	4000
Analogue bar chart				42 Segmente	42 Segmente	42 Segmente	42 Segmente
Updating rate analogue (x/s)				13	13	13	13
Display of low battery status	•	•	•	•	•	•	•
Automatic range selection		•		•	•	•	•
Automatic stop			Yes	Yes	Yes	Yes	Yes
Peak Hold				•	•	•	•
Data Hold (measured data memory)	•	•	•	•	•	•	•
Minimum value / maximum value				Yes	Yes	Yes	Yes
Measuring category	III, 600 V	III, 600 V	III, 600 V	III, 600 V	III, 600 V	IV, 600 V III, 1000 V	IV, 600 V III, 1000 V
CE	•	•	•	•	•	•	•
Limited lifetime warranty	•	•	•	•	•	•	•

## Clamp meters

### CM Series in detail 2



Part No. Catalogue No.	50076663 CM-850	50077007 CM-950	50077333 CM-1350	50077996 CM-1550	52020887 CSJ-100
True effective value	•	•	•	•	
DC A (A max.)		600		1000	
Maximum resolution (A)		0,1		0,1	
Greatest accuracy (%)		1,2		1,2	
AC A (A max.)	600	600	1000	1000	200
Maximum resolution (A)	0,1	0,1	0,1	0,1	0,1
Greatest accuracy (%)	1,9	1,9	1,9	1,9	3,0
DC V (V max.)	600	600	1000	1000	1000
Maximum resolution (V)	0,1	0,1	0,1	0,1	0,1
Greatest accuracy (%)	0,7	0,7	0,7	0,7	1,0
AC A (A max.)	600	600	750	750	1000
Maximum resolution (V)	0,1	0,1	0,1	0,1	0,1
Greatest accuracy (%)	1,0	1,0	1,0	1,0	1,5
Resistance (Ω)	400 Ω	400 Ω	400 Ω	400 Ω	20MΩ
Maximum resolution (Ω)	0,1	0,1	0,1	0,1	0,1
Greatest accuracy (%)	1,0	1,0	1,0	1,0	1,0
Acoustic continuity check	•	•	•	•	•
Frequency	•	•	•	•	
Frequency threshold value (Hz)	50-400	50-500	50-400	50-500	50-500
Plier opening	34 mm	35 mm	51 mm	51 mm	16 mm
Display type	Digital	Digital	Digital	Digital	Digital
Display of updating rate (x/s)	2,5	2,5	2,5	2,5	1,5
Display range	4000	4000	4000	4000	2000
Analogue bar chart	42 Segmente	42 Segmente	42 Segmente	42 Segmente	
Updating rate analogue (x/s)	13	13	13	13	
Display of low battery status	•	•	•	•	•
Automatic range selection	•	•	•	•	•
Automatic stop	Yes	Yes	Yes	Yes	Yes
Peak Hold	•	•	•	•	
Data Hold (measured data memory)	•	•	•	•	•
Minimum value / maximum value	Yes	Yes	Yes	Yes	
Measuring category	III, 600 V	III, 600 V	IV, 600 V III, 1000 V	IV, 600 V III, 1000 V	IV, 600 V III, 1000 V
CE	•	•	•	•	•
Limited lifetime warranty	•	•	•	•	•

**CM-330**

Clamp meters

- Compact, ergonomic design for measuring in tight spaces

**Characteristics**

- Measurement of alternating currents to 400 A
- Data Hold function for recording peak values
- Data Hold function for recording important measurement results

**Detail info**

- More detailed technical information can be found on page 649

Technical Data	
Current measurement:	0 – 400 A
Display	LCD (display range 2000)
Measuring category:	CAT III, 600 V
Plier opening	30 mm

Item	Part No.		
CM-330 clamp meter	50118650		
Scope of supply	Description	Part No.	Page
TC-5	Nylon carry bag with belt loop	50075888	662
	Battery 9 V		





### ■ CM-410

Clamp meters



- **Narrow, compact design for measuring in tight spaces**

#### Characteristics

- Measurement of resistances to 20 Ohm
- Data Hold function for recording important measured values
- Automatic device shut-off
- Continuity test

#### Detail info

- More detailed technical information can be found on page **649**



Technical Data	
Voltage measurement:	600 V AC/DC
Continuity test:	Yes
Current measurement:	400 A AC
Resistance:	20 MΩ
Display	LCD (display range 2000)
Measuring category:	III, 600 V
Plier opening	27 mm
Accuracy:	0,7

Item	Part No.		
CM-410 clamp meter	<b>52022030</b>		
Scope of supply	Description	Part No.	Page
TC-5	Nylon carry bag with belt loop	50075888	662
	Battery 9 V		

**CM-600**

Clamp meters

**Characteristics**

- Measurement of alternating voltage and alternating current
- Resistance measurement up to 2000 Ohm
- Longer battery service life due to automatic shut-off

**Detail info**

- More detailed technical information can be found on page 649

Technical Data	
Voltage measurement:	600 V AC
Current measurement:	600 A
Resistance:	2000 Ω
Display	3 1/2-character LCD (display range 2000)
Measuring category:	CAT III, 600 V
Plier opening	35 mm

Item	Part No.		
CM-600 clamp meter	<b>50075934</b>		
Scope of supply	Description	Part No.	Page
TC-10	Nylon carry bag with belt loop	50075349	663
	Battery 9 V		
	Test leads		



## Clamp meters



### ■ CM-800

Clamp meters

#### Characteristics

- Measurement of alternating current, direct and alternating voltage, frequency and resistance
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Longer battery service life due to selectable automatic shut-off

#### Detail info

- More detailed technical information can be found on page 649

Technical Data	
Voltage measurement:	400.0, 600 V
Current measurement:	400.0, 600 A
Resistance:	400 Ω
Display	LCD (display range 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V
Plier opening	34 mm

Item	Part No.		
CM-800 clamp meter	<b>50076647</b>		
Scope of supply	Description	Part No.	Page
TC-10	Nylon carry bag with belt loop	50075349	663
	Battery 9 V		
	Test leads		

**CM-850**

Clamp meter, TRUE RMS

- TRUE RMS for the most precise measurements if harmonic oscillation is present

**Characteristics**

- Measurement of alternating current, direct and alternating voltage, frequency and resistance
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Longer battery service life due to selectable automatic shut-off

**Detail info**

- More detailed technical information can be found on page 650



Technical Data	
Voltage measurement:	400.0, 600 V
Current measurement:	400.0, 600 A
Resistance:	400 Ω
Display	LCD (display range 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V
Plier opening	34 mm

Item	Part No.		
CM-850 Clamp meter, TRUE RMS	50076663		
Scope of supply	Description	Part No.	Page
TC-10	Nylon carry bag with belt loop	50075349	663
	Test leads		
	Battery 9 V		



## Clamp meters



### ■ CM-900

Clamp meters

#### Characteristics

- Measurement of direct and alternating current, direct and alternating voltage, frequency and resistance
- Dual reverberation sensor ensures precision during direct current measurement
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Automatic zero-point setting for direct current measurement
- Longer battery service life due to selectable automatic shut-off

#### Detail info

- More detailed technical information can be found on page 649

Technical Data	
Voltage measurement:	400.0, 600 V
Current measurement:	400.0, 600 A
Resistance:	400 $\Omega$
Display	LCD (display range 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V
Plier opening	35 mm

Item	Part No.		
CM-900 clamp meter	<b>50076990</b>		
Scope of supply	Description	Part No.	Page
TC-10	Nylon carry bag with belt loop	50075349	663
	Test leads		
	Battery 9 V		

**CM-950**

Clamp meter, TRUE RMS

- TRUE RMS for the most precise measurements if harmonic oscillation is present

**Characteristics**

- Measurement of direct and alternating current, direct and alternating voltage, frequency and resistance
- Dual reverberation sensor ensures precision during direct current measurement
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Automatic zero-point setting for direct current measurement
- Longer battery service life due to selectable automatic shut-off

**Detail info**

- More detailed technical information can be found on page 650

Technical Data	
Voltage measurement:	400.0, 600 V
Current measurement:	400.0, 600 A
Resistance:	400 Ω
Display	LCD (display range 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V
Plier opening	35 mm

Item	Part No.		
CM-950 Clamp meter, TRUE RMS	<b>50077007</b>		
Scope of supply	Description	Part No.	Page
TC-10	Nylon carry bag with belt loop	50075349	663
	Test leads		
	Battery 9 V		



Clamp meters



**CM-1300**

Clamp meters

**Characteristics**

- Measurement of alternating current, direct and alternating voltage, frequency and resistance
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Acoustic continuity check
- Longer battery service life due to selectable automatic shut-off

**Detail info**

- More detailed technical information can be found on page **649**

Technical Data	
Voltage measurement:	AC V 400.0, 750 V; DC V 400.0, 1000 V
Current measurement:	400.0, 1000 A
Resistance:	400 Ω
Display	LCD (display range 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V; CAT III, 750 V AC/1000 V DC
Plier opening	51 mm

Item	Part No.		
CM-1300 clamp meter	<b>50077325</b>		
Scope of supply	Description	Part No.	Page
TC-30	Nylon carry bag with belt loop	50075365	
	Test leads		
	Battery 9 V		

**CM-1350**

Clamp meter, TRUE RMS

- TRUE RMS for the most precise measurements if harmonic oscillation is present

**Characteristics**

- Measurement of alternating current, direct and alternating voltage, frequency and resistance
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Acoustic continuity check
- Longer battery service life due to selectable automatic shut-off

**Detail info**

- More detailed technical information can be found on page 650

Technical Data	
Voltage measurement:	AC V 400.0, 750 V; DC V 400.0, 1000 V
Current measurement:	400.0, 1000 A
Resistance:	400 Ω
Display	LCD (display range 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V; CAT III, 750 V AC/1000 V DC
Plier opening	51 mm

Item	Part No.		
CM-1350 Clamp meter, TRUE RMS	<b>50077333</b>		
Scope of supply	Description	Part No.	Page
TC-30	Nylon carry bag with belt loop	50075365	
	Test leads		
	Battery 9 V		



Clamp meters



**CM-1500**

Clamp meters

**Characteristics**

- Measurement of direct and alternating current, direct and alternating voltage, frequency and resistance
- Dual reverberation sensor ensures precision during direct current measurement
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Acoustic continuity check

**Detail info**

- More detailed technical information can be found on page **649**

Technical Data	
Voltage measurement:	AC V 400.0, 750 V; DC V 400.0, 1000 V
Current measurement:	400.0, 1000 A
Resistance:	400 Ω
Display	LCD (Anzeigeumfang 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V; CAT III, 750 V AC/1000 V DC
Plier opening	51 mm

Item	Part No.		
CM-1500 clamp meter	<b>50077988</b>		
Scope of supply	Description	Part No.	Page
TC-30	Nylon carry bag with belt loop	50075365	
	Test leads		
	Battery 9 V		

**CM-1550**

Clamp meter, TRUE RMS

- **TRUE RMS for the most precise measurements if harmonic oscillation is present**

**Characteristics**

- Measurement of alternating current, direct and alternating voltage, frequency and resistance
- Dual reverberation sensor ensures precision during direct current measurement
- Easy-to-read backlit display for poor lighting conditions
- Peak Hold and Data Hold function for recording measurement results
- MIN/MAX function for more versatile applications
- Analogue bar chart for checking fast changes
- Acoustic continuity check
- Longer battery service life due to selectable automatic shut-off

**Detail info**

- More detailed technical information can be found on page 650

Technical Data	
Voltage measurement:	AC V 400.0, 750 V; DC V 400.0, 1000 V
Current measurement:	400.0, 1000 A
Resistance:	400 Ω
Display	LCD (display range 4000)
Frequency:	0.400 kHz
Measuring category:	CAT III, 600 V; CAT III, 750 V AC/1000 V DC
Plier opening	51 mm

Item	Part No.		
CM-1550 Clamp meter, TRUE RMS	<b>50077996</b>		
Scope of supply	Description	Part No.	Page
TC-30	Nylon carry bag with belt loop	50075365	
	Test leads		
	Battery 9 V		



Clamp meters



**CSJ-100**

Jaw meter, open



**Characteristics**

- Measurement of AC, DC and alternating voltage
- For easy, quick voltage measurement
- Test leads can be fastened to the housing
- Resistance measurement up to 20 MΩ
- Acoustic continuity test and diode test
- Alarm and LED for contactless voltage detection
- Automatic shut-off for longer service life
- Data Hold for recording the measured values
- LCD display range: 2000

**Order info**

- More detailed technical information can be found on page 650



Technical Data	
Voltage measurement:	200.0, 1000 V
Current measurement:	200 A AC
Resistance:	20MΩ
Display	LCD (display range 2000)
Measuring category:	CAT IV, 600 V CAT III, 1000 V
Plier opening	16 mm

Item	Part No.		
CSJ-100 jaw meter, open	<b>52020887</b>		
Scope of supply	Description	Part No.	Page
TC-5	Nylon carry bag with belt loop	50075888	662
	Test leads		
	Batteries 1.5 V		

**TC-5**

Nylon carry bag with belt loop

**Suitable for:**

- CMT-80 / CM-330 / CM-410 / CSJ-100



Item	Part No.
Nylon carry bag with belt loop	<b>50075888</b>

■ **TC-10**

Nylon carry bag with belt loop

**Suitable for:**

- CM-600 / CM-800 / CM-850 / CM-900 / CM-950

Item	Part No.
Nylon carry bag with belt loop	50075349



■ **TC-30**

Nylon carry bag with belt loop

**Suitable for:**

- CM-1300 / CM-1350 / CM-1500 / CM-1550
- Voltage tester GT-55E / GT-65E / GT-85E / GT-95E

Item	Part No.
Nylon carry bag with belt loop	50075365

