

Coin time meter represent for the operator the ideal solution to charge cost-effectively for use of electrical equipment. To be used for solariums, washing machines or lighting systems etc., the applications are very manifold.

The meters were developed by company Gruner AG. There are different basic types of coin time meters with numerous variations and many special options are available.

The basic function of the meters:

The power is connected, after coin is inserted and again interrupted after certain time period. Hereby the kind of coin and time period can be chosen by operator. The various type of meters differ in:

- coin inserting (w/o coin returning function, mechanical or electronic coin checking)
- kind of coin (all conventional coins and European currencies are available)
- display (w/o display, 1-digit/2-digit display)
- output relay (1 x 10 amps or 3 x 16 amps by contactor)
- various special options



for requests / orders please contact:

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ECM 1 / ECM 11


power supply:

230 V 50 / 60 Hz or
24 V, 50 / 60 Hz

power consumption:

4,0 Watt

output relay:

1 closing contact (floating)
250 V / 10 A cos φ 1
250 V / 6 A cos φ 0,7

dimensions:

207 x 155 x 86 mm
(H x W x D)

connector:

5-pole connecting block

cable inlet:

rear- / top-side:

2 x PG 11

housing:

stainless steel, powder-coated
white RAL 9010

coin container:

300 – 500 coins

basic configuration

- **ECM 1-1**
coin tester with track for 5-Cent-coins or
profiled coins 25 mm
- **without** coin returning function
- **ECM 1-2**
mechanical coin tester for thickness and
diameter for all conventional coins
- **with** coin returning function
- **ECM 11**
as ECM 1-2, but 2-digits display in minutes
- basic time setting 1 – 99 min
or 1– 99 hours
- display of inserted coins 0 – 9 (ECM1) and/or
remaining time in minutes (ECM 11)
- output relay 10 amps


options

- time stop by floating contact
- time stop by mains voltage
- total counter of inserted coins
- time and data hold in case of power failure
- internal reset push button
- time reminder 1 or 5 min (by relay)
- coin minimum selection 1 – 8 coins

special edition „TV“

- release time 1 – 99 hours and time hold in
case of power failure
- *especially for the tv-rental service*



ECM 3



ECM 3-2

power supply:

230 V 50 / 60 Hz or
24 V, 50 / 60 Hz

power consumption:

4,0 Watt

output relay:

1 closing contact (floating)
250 V / 10 A cos φ 1
250 V / 6 A cos φ 0,7

dimensions:

207 x 155 x 86 mm
(H x W x D)

connector:

5-pole connecting block

cable inlet:

rear- / top-side:

2 x PG 11

housing:

stainless steel, powder-coated
white RAL 9010

coin container:

300 – 500 coins

basic configuration

- **ECM 3-1**
coin tester with track for 5-Cent-coins or
profiled coins 25 mm
- **without** coin returning function
- **ECM 3-2**
mechanical coin tester for thickness and
diameter for all conventional coins
- **with** coin returning function
- basic time setting 1 – 99 min
- for single coin insertion only
- output relay 10 amps

options

- total counter of inserted coins



ECM 3-1

ECM 4 / 41



ECM 4 / 41

power supply:

230 V 50 / 60 Hz or
24 V, 50 / 60 Hz

power consumption:

4,0 Watt

output relay:

1 closing contact (floating)
250 V / 10 A cos φ 1
250 V / 6 A cos φ 0,7

dimensions:

207 x 155 x 86 mm
(H x W x D)

connector:

4-pole connecting block

cable inlet:

rear- / top-side:

2 x PG 11

housing:

stainless steel, powder-coated
white RAL 9010

coin container:

300 – 500 coins

basic configuration

- coin tester with track for 5-Cent-coins or profiled coins 25 mm
 - **without** coin returning function
- fixed coded basic time 1-99 min
- for single coin insertion only
- output relay 10 amps
- **ECM 41**
 - special feature: minimum number of coins can be chosen: 1-8 coins (costs can be set between one coin and 8 coins)
 - *special edition for hair drying devices*

options

- total counter of inserted coins

ECM 5

**power supply:**

230 V 50 / 60 Hz or
24 V, 50 / 60 Hz

power consumption:

4,0 Watt

output relay:

1 closing contact (floating)
250 V / 10 A cos φ 1
250 V / 6 A cos φ 0,7

dimensions:

255 x 182 x 127 mm
(H x W x D)

connector:

9-pole connecting block

cable inlet:

rear- / bottom-side:

3 x PG 16

housing:

stainless steel, powder-coated
white RAL 9010

coin container:

300 – 500 coins

basic configuration

- mechanical coin tester for all conventional coins
- remaining time display 3 digits 9h 59 min
- basic time setting 1 – 999 min
- output relay 10 amps
- coin checking for diameter and thickness, with coin returning function.

preselection of minimum number of coins

- **function 1:**
insertion of coins up to preselected quantity, then meter will start. Additional insertion of coins extends the remaining time.
- **function 2:**
as per function 1, but additional insertion of preselected quantity of coins doubles the basic time.

options

- time stop by floating contact or switch
- time stop by mains voltage
- total counter of inserted coins
- time and data hold in case of power failure
- internal reset push button
- power contactor 3 x 16 amps
- time reminder 1 or 5 min (by relay)
- preselection number of coins for 1 – 120 coins (function 1 or 2)
- display of 9 hours / 59 min or 999 min
- unlocking button for washing machines
- electronic coin checker for 4 different coins

door unlocking of washing machines

when time end is reached, push button allows to reconnect power for 30 sec. in order to open the door of washing machine.

ECM 7



power supply:

230 V 50 / 60 Hz or
24 V, 50 / 60 Hz

connector:

9-pole connecting block

power consumption:

4,0 Watt

cable inlet:

rear- / bottom-side:

3 x PG 16

output relay:

1 closing contact (floating)
250 V / 10 A cos φ 1
250 V / 6 A cos φ 0,7

housing:

stainless steel, powder-coated
white RAL 9010

dimensions:

255 x 182 x 127 mm
(H x W x D)

coin container:

300 – 500 coins

basic configuration

- mechanical coin tester for all conventional coins
- remaining time display 3 digits 9h 59 min
- basic time setting 1 – 999 min
- output relay 10 amps
- coin checking for diameter and thickness, with coin returning function.

options

- remote start by separate switch
- remote start by mains voltage
- total counter of inserted coins
- time- and data-hold in case of power failure
- internal reset push button
- power contactor 3 x 16 amps.
- external time stop push button
- electronic coin checker for 4 different coins.

preselection of minimum number of coins

- **function 1:**
insertion of coins up to preselected quantity, then meter will start. Additional insertion of coins extends the remaining time.
- **function 2:**
as per function 1, but additional insertion of preselected quantity of coins doubles the basic time.

special edition for solariums

- starting delay 1 – 3 min
- block time 4 –10 min (relay)
flashing display (can be switched off)
- time limiting 30 or 60 min
- preselection number of coins 1 – 120
(function 1 or 2)
- all special functions can be selected by slide switches

options

	ECM 1	ECM 3	ECM 4	ECM 41	ECM 5	ECM 7	ECM 11
multiple coin insertion	●				●	●	●
starting delay 1 – 3 min, adjustable					●	●	
remote start					●	●	
coin checker elektronical					●	●	
coin checker mechanical	●	●	●	●	●	●	●
preselection number of coins 2 – 8	●			●			●
preselection number of coins 2 – 120					●	●	
block time 4-10 min	●				●	●	●
switch for continous function					●	●	
power contactor 3 x 16 amps / 230 V					●	●	
locking magnet					●	●	
block time with flashing display					●	●	
stop push button					●	●	
reminder signal / relay contact (1 or 5 min before time end)	●				●	●	●
time limiting					●	●	
time / data hold	●				●	●	●
time interruption	●				●	●	●

starting delay:

after insertion of coin, there is adjustable delay of operation.

remote start:

after insertion of coin, meter is started by separate remote switch.

basic time setting:

basic time is set by 2 (3) rotary switches in between 1 -99 (-999) min or 1 – 99 hours.

preselection of number of coins:

operation will start after insertion of minimum of coins.

block time:

after expiry of time period block time of 4 – 10 min.

switch for continous operation:

internal switch to change from coin operated function to continous function.

blocking magnet:

blocking of coin insertion.

stop push button:

reset of the meter.

time reminder / relay contact:

presignal or relay contact, which is operated 1 or 5 min before end of time period.

time and data hold:

in case of power failure, remaining time and operating conditions will be kept.

time stop:

external switch or internal contact to stop time laps.