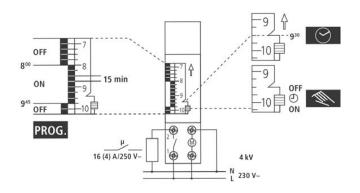


## **Timer with Daily Programs**

Part numbers: D1MMEK





Operating voltage:230-240 V AC +10 % / -15 %Frequency:50-60 HzPower consumption DV1K / DV2K:max. 0,84/1,13 WMax switching capacity:16 A (at 250 V, cos φ = 1)switching capacity:4A (at 250 V, cos φ = 0,6)Min. switching capacity:10 mA/230 V AC 100 mA/24 V AC/DCSwitching output:switching of choice of phase is permittedGTR DV1K:suitable for switching SELV (Safe Extra-Low Voltage)Shortest switching time:15 minProtection rating:IP 20 in accordance with EN 60529Protection class:II in accordance with EN 60730-1 subject to designated installationOperating temperature:-10 °C +55 °CPower reserve:3 days +20 °CTime accuracy (typical):± 1 s/day (25 °C)Rated impulse withstand voltage:4 kVPollution degree:2Contact:One way switch x 1Glow lamp load:2600 WHalogen lamp load:2600 WFluorescent lamp load: uncorrected:2300 VASeries corrected: parallel-corrected:2300 VASeries corrected: parallel-corrected:2300 VACompact fluorescent tubes (EVG):170 WLED lamps (> 2 W < 8 W):		
Power consumption DV1K / DV2K:  Max switching capacity:  Switching capacity:  Min. switching capacity:  Min. switching output:  Switching output:  Switching output:  Switching output:  Switching of choice of phase is permitted  GTR DV1K:  Switching time:  Shortest switching time:  Frotection rating:  Protection class:  Il in accordance with EN 60529  Protection class:  Il in accordance with EN 60730-1 subject to designated installation  Operating temperature:  Power reserve:  Sadays +20 °C  Time accuracy (typical):  ± 1 s/day (25 °C)  Rated impulse withstand voltage:  4 kV  Pollution degree:  Contact:  One way switch x 1  Glow lamp load:  Halogen lamp load:  Halogen lamp load:  Halogen lamp load: uncorrected:  Series corrected:  Series correct	Operating voltage:	230-240 V AC +10 % / -15 %
Max switching capacity: $16 \text{ A}$ (at $250 \text{ V}$ , $\cos \varphi = 1$ )switching capacity: $4A \text{ (at } 250 \text{ V}, \cos \varphi = 0.6$ )Min. switching capacity: $10 \text{ mA}/230 \text{ V AC } 100 \text{ mA}/24 \text{ V AC/DC}$ Switching output:switching of choice of phase is permittedGTR DV1K:suitable for switching SELV (Safe Extra-Low Voltage)Shortest switching time: $15 \text{ min}$ Protection rating:IP 20 in accordance with EN 60529Protection class:III in accordance with EN 60730-1 subject to designated installationOperating temperature: $-10 \text{ °C} \dots +55 \text{ °C}$ Power reserve: $3 \text{ days} +20 \text{ °C}$ Time accuracy (typical): $\pm 1 \text{ s/day } (25 \text{ °C})$ Rated impulse withstand voltage: $4 \text{ kV}$ Pollution degree: $2 \text{ Contact:}$ Glow lamp load: $2600 \text{ W}$ Halogen lamp load: $2600 \text{ W}$ Fluorescent lamp load: uncorrected: Series corrected: eries corrected: parallel-corrected: $2300 \text{ VA}$ $730 \text{ VA } (80 \text{ µF})$ Compact fluorescent tubes (EVG): $170 \text{ W}$ LED lamps ( $< 2 \text{ W}$ ): $30 \text{ W}$ LED lamps ( $> 2 \text{ W} < 8 \text{ W}$ ): $100 \text{ W}$	Frequency:	50-60 Hz
switching capacity:4A (at 250 V, cos φ = 0,6)Min. switching capacity:10 mA/230 V AC 100 mA/24 V AC/DCSwitching output:switching of choice of phase is permittedGTR DV1K:suitable for switching SELV (Safe Extra-Low Voltage)Shortest switching time:15 minProtection rating:IP 20 in accordance with EN 60529Protection class:II in accordance with EN 60730-1 subject to designated installationOperating temperature:-10 °C +55 °CPower reserve:3 days +20 °CTime accuracy (typical):± 1 s/day (25 °C)Rated impulse withstand voltage:4 kVPollution degree:2Contact:One way switch x 1Glow lamp load:2600 WHalogen lamp load:2600 WFluorescent lamp load: uncorrected: Series corrected: Parallel-corrected:2300 VA 730 VA (80 μF)Compact fluorescent tubes (EVG):170 WLED lamps (< 2 W):	Power consumption DV1K / DV2K:	max. 0,84/1,13 W
Min. switching capacity:10 mA/230 V AC 100 mA/24 V AC/DCSwitching output:switching of choice of phase is permittedGTR DV1K:suitable for switching SELV (Safe Extra-Low Voltage)Shortest switching time:15 minProtection rating:IP 20 in accordance with EN 60529Protection class:II in accordance with EN 60730-1 subject to designated installationOperating temperature:-10 °C +55 °CPower reserve:3 days +20 °CTime accuracy (typical):± 1 s/day (25 °C)Rated impulse withstand voltage:4 kVPollution degree:2Contact:One way switch x 1Glow lamp load:2600 WHalogen lamp load:2600 WFluorescent lamp load: uncorrected:2300 VASeries corrected:2300 VAParallel-corrected:730 VA (80 μF)Compact fluorescent tubes (EVG):170 WLED lamps (< 2 W):30 WLED lamps (> 2 W < 8 W):100 W	Max switching capacity:	16 A (at 250 V, $\cos \varphi = 1$ )
mA / 24 V AC/DC  Switching output: switching of choice of phase is permitted  GTR DV1K: suitable for switching SELV (Safe Extra-Low Voltage)  Shortest switching time: 15 min  Protection rating: IP 20 in accordance with EN 60529  Protection class: II in accordance with EN 60730-1 subject to designated installation  Operating temperature: -10 °C +55 °C  Power reserve: 3 days +20 °C  Time accuracy (typical): ± 1 s/day (25 °C)  Rated impulse withstand voltage: 4 kV  Pollution degree: 2  Contact: One way switch x 1  Glow lamp load: 2600 W  Halogen lamp load: 2600 W  Fluorescent lamp load: uncorrected: 2300 VA  730 VA (80 µF)  Compact fluorescent tubes (EVG): 170 W  LED lamps (< 2 W): 30 W  LED lamps (> 2 W < 8 W): 100 W	switching capacity:	4A (at 250 V, $\cos \varphi = 0.6$ )
permitted  GTR DV1K:  Suitable for switching SELV (Safe Extra-Low Voltage)  Shortest switching time:  15 min  Protection rating:  IP 20 in accordance with EN 60529  Protection class:  II in accordance with EN 60730-1 subject to designated installation  Operating temperature:  -10 °C +55 °C  Power reserve:  3 days +20 °C  Time accuracy (typical):  ± 1 s/day (25 °C)  Rated impulse withstand voltage:  4 kV  Pollution degree:  Contact:  One way switch x 1  Glow lamp load:  Halogen lamp load:  Halogen lamp load:  Compact fluorescent lamp load: uncorrected:  Series corrected:  Series corrected:  Pompact fluorescent tubes (EVG):  170 W  LED lamps (< 2 W):  LED lamps (> 2 W < 8 W):  100 W	Min. switching capacity:	
Extra-Low Voltage)  Shortest switching time:  Protection rating:  Protection class:  II in accordance with EN 60529  Protection class:  II in accordance with EN 60730-1 subject to designated installation  Operating temperature:  -10 °C +55 °C  Power reserve:  3 days +20 °C  Time accuracy (typical):  ± 1 s/day (25 °C)  Rated impulse withstand voltage:  4 kV  Pollution degree:  2  Contact:  One way switch x 1  Glow lamp load:  Halogen lamp load:  Halogen lamp load:  Fluorescent lamp load: uncorrected:  Series corrected:  Series corrected:  Parallel-corrected:  2300 VA  730 VA (80 µF)  Compact fluorescent tubes (EVG):  170 W  LED lamps (< 2 W):  LED lamps (> 2 W < 8 W):  100 W	Switching output:	,
Protection rating:  Protection rating:  IP 20 in accordance with EN 60529  Protection class:  II in accordance with EN 60730-1 subject to designated installation  Operating temperature:  -10 °C +55 °C  Power reserve:  3 days +20 °C  Time accuracy (typical):  ± 1 s/day (25 °C)  Rated impulse withstand voltage:  4 kV  Pollution degree:  2  Contact:  One way switch x 1  Glow lamp load:  Halogen lamp load:  2600 W  Fluorescent lamp load: uncorrected:  Series corrected:  Series corrected:  2300 VA  parallel-corrected:  730 VA (80 µF)  Compact fluorescent tubes (EVG):  170 W  LED lamps (< 2 W):  LED lamps (> 2 W < 8 W):  100 W	GTR DV1K:	j .
Protection class:  Il in accordance with EN 60730-1 subject to designated installation  Operating temperature:  -10 °C +55 °C  Power reserve:  3 days +20 °C  Time accuracy (typical):  ± 1 s/day (25 °C)  Rated impulse withstand voltage:  4 kV  Pollution degree:  Contact:  One way switch x 1  Glow lamp load:  Halogen lamp load:  Halogen lamp load:  Fluorescent lamp load: uncorrected:  Series corrected:  Series corrected:  Panallel-corrected:  2300 VA  730 VA (80 µF)  Compact fluorescent tubes (EVG):  170 W  LED lamps (< 2 W):  LED lamps (> 2 W < 8 W):  100 W	Shortest switching time:	15 min
subject to designated installation  Operating temperature: -10 °C +55 °C  Power reserve: 3 days +20 °C  Time accuracy (typical): ± 1 s/day (25 °C)  Rated impulse withstand voltage: 4 kV  Pollution degree: 2  Contact: One way switch x 1  Glow lamp load: 2600 W  Halogen lamp load: 2600 W  Fluorescent lamp load: uncorrected: Series corrected: 2300 VA  parallel-corrected: 730 VA (80 µF)  Compact fluorescent tubes (EVG): 170 W  LED lamps (< 2 W): 30 W  LED lamps (> 2 W < 8 W): 100 W	Protection rating:	IP 20 in accordance with EN 60529
Power reserve: 3 days +20 °C  Time accuracy (typical): ± 1 s/day (25 °C)  Rated impulse withstand voltage: 4 kV  Pollution degree: 2  Contact: One way switch x 1  Glow lamp load: 2600 W  Halogen lamp load: 2600 W  Fluorescent lamp load: uncorrected: 2300 VA  parallel-corrected: 730 VA (80 µF)  Compact fluorescent tubes (EVG): 170 W  LED lamps (< 2 W): 30 W	Protection class:	
Time accuracy (typical): ± 1 s/day (25 °C)  Rated impulse withstand voltage: 4 kV  Pollution degree: 2  Contact: One way switch x 1  Glow lamp load: 2600 W  Halogen lamp load: 2600 W  Fluorescent lamp load: uncorrected: 2300 VA  Series corrected: 730 VA (80 µF)  Compact fluorescent tubes (EVG): 170 W  LED lamps (< 2 W): 30 W	Operating temperature:	−10 °C +55 °C
Rated impulse withstand voltage:  Pollution degree:  Contact:  Glow lamp load:  Halogen lamp load:  Fluorescent lamp load: uncorrected:  Series corrected:  Parallel-corrected:  Compact fluorescent tubes (EVG):  LED lamps (< 2 W):  LED lamps (> 2 W < 8 W):  100 W	Power reserve:	3 days +20 °C
Pollution degree:       2         Contact:       One way switch x 1         Glow lamp load:       2600 W         Halogen lamp load:       2600 W         Fluorescent lamp load: uncorrected:       2300 VA         Series corrected:       2300 VA         parallel-corrected:       730 VA (80 μF)         Compact fluorescent tubes (EVG):       170 W         LED lamps (< 2 W):	Time accuracy (typical):	± 1 s/day (25 °C)
Contact: One way switch x 1  Glow lamp load: Halogen lamp load: 2600 W  Fluorescent lamp load: uncorrected: Series corrected: 2300 VA 730 VA (80 µF)  Compact fluorescent tubes (EVG): 170 W  LED lamps (< 2 W): 30 W  LED lamps (> 2 W < 8 W): 100 W	Rated impulse withstand voltage:	4 kV
Glow lamp load: 2600 W Halogen lamp load: 2600 W Fluorescent lamp load: uncorrected: 2300 VA parallel-corrected: 730 VA (80 µF)  Compact fluorescent tubes (EVG): 170 W  LED lamps (< 2 W): 30 W  LED lamps (> 2 W < 8 W): 100 W	Pollution degree:	2
Halogen lamp load:  Fluorescent lamp load: uncorrected: Series corrected: 2300 VA parallel-corrected: 730 VA (80 µF)  Compact fluorescent tubes (EVG):  LED lamps (< 2 W):  LED lamps (> 2 W < 8 W):  100 W	Contact:	One way switch x 1
Fluorescent lamp load: uncorrected: Series corrected: parallel-corrected:  Compact fluorescent tubes (EVG):  LED lamps (< 2 W):  LED lamps (> 2 W < 8 W):  100 W	Glow lamp load:	2600 W
Series corrected: 2300 VA 730 VA (80 µF)  Compact fluorescent tubes (EVG): 170 W  LED lamps (< 2 W): 30 W  LED lamps (> 2 W < 8 W): 100 W	Halogen lamp load:	2600 W
LED lamps (< 2 W): 30 W  LED lamps (> 2 W < 8 W): 100 W	Series corrected:	
LED lamps (> 2 W < 8 W): 100 W	Compact fluorescent tubes (EVG):	170 W
•	LED lamps (< 2 W):	30 W
LED lamps (> 8 W): 120 W	LED lamps (> 2 W < 8 W):	100 W
	LED lamps (> 8 W):	120 W





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Agent established within EC/Ombud etablerad inom EG

Telephone: Telefax:

Agent of equipment/Materielslag: Electromechanical time switch

Trade Mark/Varumärke: GARO

Type Designation/Typbeteckning: DV1K, DV2K, ASTRO1K, ASTRO2K, DV1K1M, ASTRO1K1M, D1MMEK, D3MMEK, V3MMEK

We hereby declare that our product fulfils the requirements of following EC directives/ Vi intygar härmed att vår produkt uppfyller krav enligt följande EU direktiv:

The Low Voltage Directive (LVD) 2014/35/EU / Lågspänningsdirektivet (LVD) 2014/35/EU.
Electromagnetic compatibility (EMC) 2014/30/EU / Elektromagnetisk kompatibilitet (EMC) 2014/30/EU
RoHS Directive (RoHS) 2011/65/EU / RoHS direktivet (RoHS) 2011/65/EU.
☐ No electromagnetic compatibility (EMC 2014/30/EU) immunity or emission tests are required on
the assembly / Produkten innehåller inte elektroniska apparater som påverkas enligt förbehållen enligt direktiv
(EMC) 2014/30/EU.

The following harmonised standards (latest edition) or technical specifications which comply with good engineering practice in safety matters in force within the EC have been used in the design:/ Följande harmoniserade standarder (senaste utgåva) eller tekniska specifikationer som uppfyller god säkerhetsteknik praxis inom EG har använts i konstruktionen: EN 60730-1, EN 60730-2-7, EN 50581

☑ The equipment confirms completely with the above stated harmonised standards or technical specifications./ Materielen överensstämmer helt med ovan angivna harmoniserade standarder eller tekniska specifikationer.

Or/Eller

☐ The equipment confirms only partially with the above stated harmonised standards or technical specifications but complies with good practice in safety matters in force within the EC./ Materielen överensstämmer endast delvis med ovan angivna harmoniserade standarder eller tekniska specifikationer, men uppfyller god säkerhetsteknisk praxis inom EG.

We have product surveillance according to CENELEC's harmonised reguirements, documents CCA-201.

**GARO AB** 

Company/Företag

2017-02-13 Date/Datum

Sign/Underskrift

Responsible for Technology and standardization/Teknik och standardiseringsansvarig Position/Befattning

Kent Andersson

Sign in printed letters/Namnförtydligande