Technical Data	DOM Guardian ® Mifare

Power supply:	• 1 Lithium batteriy3,0 Volt • Type CR2/3 A (Li-MnO$_2$ System) **!** *Existence of fire, explosion and burn hazard. Do not rechagfe, short circuit, crush, disassemble, heat above 85°C, incinerate or expose contents to water*
Battery life time and data preservation:	at room temperature (+20°C): • up to 40.000 looking cycles <u>or</u> • up to 3 years in case of non-use intelligent battery management: • multilevel alarm system in case of voltage drop • 10 year data preservation without battery
Time / Date:	• buffering typically 1 minute (in case of battery change) • clock drift at room temperature: ±10 minutes/year at -20 and +65°C: −50 minutes/year
Signalling:	• optical signalling (red/green/blue) • circular lighting segments in outer fitting • illuminated DOM logo
Clutch duration:	• adjustable ranging from 1 to 30 seconds • permanent open/close mode
Administration by software:	with PC, notebook or netbook: • There exists a separate datasheet for the software.
Programming devices:	programming by cards or by USB-RF-stick: • storage of max. 5 programming cards
Events:	• ring buffer for the latest 2.000 events
Inductive transponder interface:	• reading range: up to 3 cm • frequency: 13,56 MHz • field strength in 10 m distance: < 42 dB µA/m • in conformity with ETSI EN 300 330 • supports passive transponders according to ISO 14443 A
Radio interface:	for offline programming by a DOM USB-RF-stick or for the online connection to a DOM RF-NetManager: • range: typical 3 m • frequency: 868 MHz (G4 / G1 band) • effective radiated power: ≤ 5 mW / ≤ 25 mW • in conformity with ETSI EN 300 220

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Transponder types:

- DOM Standard Tac, Premium Plus Tac, Clip Tac
- ISO card transponder
- DOM ((o)) butler transponder with passive inlay
- other types have to be checked

Storage of access authorisations in the device:

- supported transponders:
  - Mifare DESFire / DESFire EV1 2k, 4k, 8k
  - Mifare Classic 1k, 4k
  - Mifare Plus S/X 2k, 4k
  - Mifare Ultralight / Ultralight C

- storage of maximal 5.000 authorisations in the device
- identification of the transponders by their UID or by other unique data

Storage of access authorisations on the transponders:

- supported transponder types:
  - Mifare DESFire EV1 2k, 4k, 8k
  - Mifare Classic 1k

- possible memory configurations Mifare Classic:

name	available for	devices	areas	blacklist trans- ponder	free memory (bytes)
A1		112	240	6	48
A2	1k	32	512	6	0
A3		192	0	6	48

- possible memory configurations Mifare DESFire:

name	available for	devices	areas	blacklist trans- ponder	free memory (bytes)
B	2k	160	256	8	288
	4k				2848
	8k				5920
C1	4k	224	2048	8	800
	8k				3872
C2	4k	832	256	8	800
	8k				3872
D1	8k	1408	2048	16	256
D2		2048	256	8	416

- other data on the transponder:
  - „blacklist" with blocked transponders
  - authorisation period, weekly schedule at the device

Weekly and day's schedules:

- storage of max. 256 weekly / day's schedules per device

- each weekly schedule points to 10 arbitrary day's schedules (7 week days and 3 special days for holidays):

1	2	3	4	5	6	7	8	9	10
Mon	Tue	Wed	Thu	Fri	Sat	Sun	holiday / vacation		
DS1	DS2	DS3	DS4	DS5	DS6	DS7	DS8	DS9	DS10

- each day's schedule consists of 96 time slots of 15 minutes, in each case definable as authorised or unauthorised:

0^{00}	1^{00}	2^{00}	3^{00}	...	20^{00}	21^{00}	22^{00}	23^{00}

...

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- access rights of the weekly / day's schedules:
  - # 0: no access (unauthorised)
  - # 1: access with no time-limits, active special functions may limit access
  - ## 2-254: freely definable
  - # 255: access with no time-limits, active special functions are ignored

- permanent-open and permanent-close weekly schedules

Holidays:

- storage of maximum 256 holidays or vacation periods per device
- definition of 3 different kinds of holidays/vacations
- begin / end as from / to date

Temperature, humidity:

Temperature range :
- stocking: -25°C bis +70°C
- operation: -20°C bis +65°C

Rel. humidity:
- 20% to 99% not condensation

- Tested according to DIN IEC 60068-2-1/2/3/30 (temperature: 6 cycles á 12 h, cold tested for 16 h)

Protection class:

- IP 52
- Guardian S: IP 55

Approvals and certifications:

- in conformity with all applicable EC directives
- national laws have to be checked separately

- Guardian S with SKG*** approval

- Suitable for use in fire-proof doors T30 (test according to DIN EN 1634-1) except: Guardian S

- Suitable for use in fire protection and smoke protection doors (Testing based on / Correspond to P-120003866.02; MPA NRW) except: Guardian S

Mechanical Function:

- Electronically controlled handle
- On the inside the handle can always press
- Handle on the outer is pivot-mounted

Door leaf thickness:

- 34-114mm, increment in 10 mm steps
- Guardian S: 39-33 mm in 5 mm steps + 79-83mm

Versions and centre hole distances:

- Blind version without hole
- Euro profile cylinder: 55, 70, 72, 78, 85, 88, 90, 92 mm
- Swiss profile CH-round: 74, 78, 94 mm
- Profile round cylinder: 74, 78, 94 mm
- Guardian S only with opening for Euro profile cylinder: 70, 72, 78, 85, 88, 90, 92 mm

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Lock compatibility:
- mortise locks (Latch return by rotation 5°)

Handle angle
- 45°

Square bolt:
- 9 mm (with adapter 7 / 8 / 8,5 / 10 mm)

Surface:
- Polished and satin stainless steel
- Polished brass effect (PVD)
- Guardian S: only satin stainless steel

Weight:
- 1100 g (standard Guardian, only outer fitting with handle)

Dimension (W x H x T):
- Outer fitting:
  38mm x 260mm x 23mm (without handle)
- Adapter plate for renovation:
  55mm x 277mm x 3mm (without handle)
- Internal fitting:
  35mm x 250mm x 8mm (without handle)

Guardian S:
- Outer fitting:
  approx. 44mm x 265mm x 29mm (without handle)
- Internal fitting:
  approx. 44mm x 265mm x 5mm (without handle)

Die Angaben entsprechen dem derzeitigen Entwicklungsstand.
Technische Änderungen sind jederzeit vorbehalten.