

Connection Accessories for Medium-Capacity Burner Controls

AGM...

Accessories for connecting medium-capacity burner controls to combustion plant.

The AGM... and this Data Sheet are intended for use by OEMs which integrate the plug-in bases in their products.

Use

The AGM... are for use with the following types of medium-capacity burner controls:

Type reference	Data Sheet	Plug-in base	Pg11 thread	M16 thread
LAL...	N7153	AGM410490500	x	
		AGM13.1		x
LFL...	N7451 N7454	AGM410490550	x	
		AGM14.1		x
LDU...	N7696	AGM11	x	
		AGM11.1		x
LGI16...	N7761	AGM15	x	
		AGM15.1		x
LOK16...	N7785	AGM16	x	
		AGM16.1		x
LGK16...	N7785	AGM17	x	
		AGM17.1		x

Warning notes



To avoid injury to persons, damage to property or the environment, the following warning notes must be observed!

- All activities (mounting, installation and service work, etc.) must be performed by qualified staff
- Before making any wiring changes in the connection area, completely isolate the plant from mains supply (all-polar disconnection). Ensure that the plant cannot be inadvertently switched on again and that it is indeed dead. If not disconnected, there is a risk of electric shock hazard
- Protection against electric shock hazard on the AGM... and on all connected electrical components must be ensured through adequate mounting. In terms of design, stability and protection, the cover must conform to EN 60730
- After each activity (mounting, installation and service work, etc.), check to ensure that wiring is in an orderly state

Mounting notes

- Ensure that the relevant national safety regulations and standard notes are complied with
- Connect the earthing lug on the AGM... plug-in base to the burner using a metric screw and a lockwasher or similar

Installation notes

- Do not mix up live and neutral conductors (dangerous malfunctions, loss of protection against electric shock hazard, etc.)
- Decisive for the electrical connections of valves and other plant components are the plant diagram and the mounting and commissioning instructions provided by the burner supplier
- To isolate the plant from the mains supply, use an all-polar switch with a contact gap of at least 3 mm
- To protect the burner control electrically, install a primary fuse
- Cable glands / glands must be made from insulating material and be suitable for the cables used, see DIN EN 60730-1

Standards and certificates



Note!
Only in connection with burner controls!



EAC Conformity mark (Eurasian Conformity mark)



ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007



Disposal notes



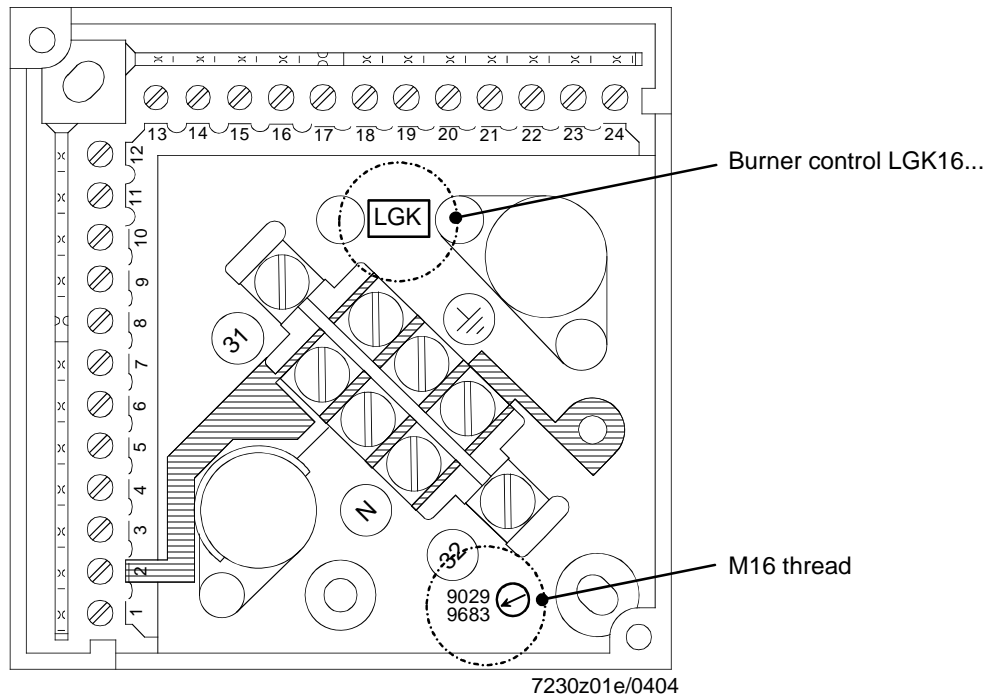
The plug-in base must not be disposed of together with household waste. Local and currently valid legislation must be observed.

Mechanical design

- Made of black, impact-proof and heat-resistant plastic
- Plug-in base and connectors of the burner control are designed such that only the correct burner control can be fitted
- 24 connection terminals
- Auxiliary terminals «31» and «32»
- 3 earth conductor terminals, joining in a lug for earthing the burner
- 3 neutral conductor terminals (prewired to terminal 2)
- 14 knockout holes for cable entry via cable entry glands (8 laterally, 6 in the bottom)
- 6 lateral treaded knockout holes for cable entry glands Pg11 or M16

Markings on the
plug-in base

Example: LGK16...:



Pg11 thread: Marked **9029** on the plug-in base (refer to «Dimensions»).

M16 thread: Marked **9683** on the plug-in base (refer to «Dimensions»).



Note!

A coded pin in the plug-in base ensures that burner controls with other functions cannot be fitted!

Plug-in base for use with valve proving device LDU...

- With Pg11 thread ¹⁾
- With M16 thread ²⁾

AGM11
AGM11.1

Plug-in base for use with burner controls LAL...

- With Pg11 thread ¹⁾
- With M16 thread ²⁾

AGM410490500
AGM13.1

Plug-in base for use with burner controls LFL...

- With Pg11 thread ¹⁾
- With M16 thread ²⁾

AGM410490550
AGM14.1

Plug-in base for use with burner controls LGI16... (supplied with wire link «J»)

- With Pg11 thread ¹⁾
- With M16 thread ²⁾

AGM15
AGM15.1

Plug-in base for use with burner controls LOK16...

- With Pg11 thread ¹⁾
- With M16 thread ²⁾

AGM16
AGM16.1

Plug-in base for use with burner controls LGK16...

- With Pg11 thread ¹⁾
- With M16 thread ²⁾

AGM17
AGM17.1

¹⁾ Marked 9029 on the plug-in base (refer to «Dimensions»)

²⁾ Marked 9683 on the plug-in base (refer to «Dimensions»)

Technical data

General data	Weight	Approx. 165 g
	Degree of protection	IP00
	Tightening torque	To DIN EN 60335-1
	- Cable with ferrules	50 Ncm
	Loosening torque	40 Ncm
	Max. cross-sectional area	
	- Terminals	Min. 0.5 mm ² Max. 1.5 mm ² Solid wire or stranded wire with ferrule
	- Auxiliary terminals N, PE, 31 and 32	Min. 0.5 mm ² Max. 1.5 mm ² Solid wire or stranded wire with ferrule (when connecting 2 solid wires or stranded wires per terminal, same cross-sectional areas must be used)
	Ferrules	Matching the cross-sectional area of the stranded wire
	Cable glands / glands	In accordance with DIN EN 60730-1
Environmental conditions	Storage	DIN EN 60721-3-1
	Climatic conditions	Class 1K3
	Mechanical conditions	Class 1M2
	Temperature range	-40...+60°C
	Humidity	<95 % r.F.
	Transport	DIN EN 60721-3-2
	Climatic conditions	Class 2K2
	Mechanical conditions	Class 2M2
	Temperature range	-40...+60 °C
	Humidity	<95 % r.h.
	Operation	DIN EN 60721-3-3
	Climatic conditions	Class 3K5
	Mechanical conditions	Class 3M2
	Temperature range	-20...+60 °C
	Humidity	<95 % r.h.



Caution!

Condensation, formation of ice and ingress of water are not permitted!

Plug-in base AGM... with Pg11 threads

Plug-in base AGM... with M16 threads

Technical drawing of the 7230m02/0204 module, showing top and side views with dimensions and labels.

Top View Dimensions:

- Overall width: 51,5
- Overall height: 51,5
- Pin pitch: 2,54 (10 pins)
- Pin 1 location: 12,8 from left edge, 5,7 from bottom edge.
- Pin 24 location: 40 from left edge, 5,7 from bottom edge.
- Pin 12 location: 12,8 from left edge, 26,8 from bottom edge.
- Pin 10 location: 40 from left edge, 26,8 from bottom edge.
- Pin 1 location: 5,7 from left edge, 12,8 from bottom edge.
- Pin 24 location: 40 from left edge, 12,8 from bottom edge.
- Pin 12 location: 12,8 from left edge, 26,8 from bottom edge.
- Pin 10 location: 40 from left edge, 26,8 from bottom edge.

Side View Dimensions:

- Overall height: 30
- Pin height: 15,5
- Pin diameter: $\varnothing 7,5$
- Pin pitch: 25
- Pin 1 location: 15 from left edge, 15 from bottom edge.
- Pin 24 location: 40 from left edge, 15 from bottom edge.
- Pin 12 location: 12,8 from left edge, 15 from bottom edge.
- Pin 10 location: 40 from left edge, 15 from bottom edge.

Labels and Notes:

- M16x1,5
- 5,2x6,7
- 7230m02/0204
- 9029 9683
- XXX
- 1,5
- 5,2 \varnothing
- 7,5 \varnothing
- 18,9 \varnothing
- 4,4 \varnothing
- 1
- 25
- 15
- 12,8
- 5,7
- 40
- 12,8
- 5,7
- 51,5
- 51,5
- 26,8
- 40
- 51,5
- 13
- 14
- 15
- 16
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