



Number	17GR0143/11	Replaces	17GR0143/10
Issue date	17-04-2025	Contract number	E 7060
Due date	17-04-2035	Module	B (Type testing)
Report number	120669	Scope	(EU) 2016/426 (9 March 2016)
PIN	0063AS4831		

EU TYPE EXAMINATION CERTIFICATE (GAR)

Kiwa hereby declares that the **multi-functional control**, model(s):

84X Sigma

Manufacturer

SIT S.P.A.
Viale dell'Industria 31-33
35129 Padova
Italy

meet(s) the essential requirements as described in the
Regulation (EU) 2016/426 relating to appliances burning gaseous fuels.

Reference standard: EN 126:2012

This certificate is only valid in combination with the appendix to this certificate, where specific information and/or conditions are given.

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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

Manufacturer: SIT S.P.A.

Multi-functional control and associated safety devices for gas appliances Type 84X Sigma is intended for use on gas appliances and similar use.

List of all available types:

84x SIGMA

Multi-functional control approved on EN 126.
connection size: Rp 1/2" according to ISO 7-1
G3/4" according to ISO 228
G1/2" according to ISO 228

Flange connection, with straight or side outlet
or quick fit straight or side outlet
or outlet with relief holes fixation

Supply voltage: 230 V - 50 Hz
230 Vrac
220 V – 60 Hz
24 V - 50 Hz
24 Vdc
24 Vrac
22 Vdc
31 Vdc
21 Vdc

Maximum inlet pressure: 60 mbar

Ambient temperature range: -10 °C to 60 °C or
-10 °C to 70 °C or
-10 °C to 80 °C or
-15 °C to 70 °C or
-15 °C to 80 °C

(-20 °C to 60 °C on request except for 848 SIGMA)

Suited for gas families I, II, III

Degree of protection IP 44 with SIT 504 NAC connector

Closing time less than 1 second

Mechanical strength group 2

Flow capacity 6m³/h at dP=5 mbar (d=0,55) (B-J version)
4m³/h at dP=5 mbar (d=0,55) (B-C version)



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

840 SIGMA	Two electro-magnetic shut-off valves class B + J or B + C With or without step opening pressure regulator class B (pressure range 1 to 50 mbar)
843 SIGMA	Two electro-magnetic shut-off valves class B + J or B + C With High\Low pressure regulator class B (pressure range 1 to 50 mbar)
845 SIGMA	Two electro-magnetic shut-off valves class B + J or B + C Pressure regulator class B with modulation coil Pressure ranges: 1 to 37 mbar (red setting screw/modulator axis in horizontal position) 1 to 20 mbar (white setting screw/modulator axis in horizontal position) 3 to 45 mbar (red setting screw/modulator axis in horizontal position)
845 SIGMA PS	Two electro-magnetic shut-off valves class B + J Power supply 24 Vdc with dedicated power saving circuit (*) Pressure regulator class B with modulation coil Pressure ranges: 1 to 37 mbar (red setting screw/modulator axis in horizontal position) 1 to 20 mbar (white setting screw/modulator axis in horizontal position) 3 to 45 mbar (red setting screw/modulator axis in horizontal position)

(*) the used electronics for the 845 Sigma PS must be safe at second fault (acc. to EN 13611 clause 6.6 class C)



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APPENDIX TO EU TYPE EXAMINATION CERTIFICATE (GAR)

848 SIGMA

Two electro-magnetic shut-off valves class B + J or B + C
Servo controlled gas/air ratio controller
Amplification factor 1:1
Pressure governor performance class B
Pressure range 0.3 to 58 mbar
Zero adjustment range $-0.3/+0.3$ mbar
Zero adjustment of pre-set value with offset cap fitted: $-/+ 0.11$ mbar

The 848 SIGMA is also compatible for usage with 100% H₂.

848 SIGMA PS

Two electro-magnetic shut-off valves class B + J or B + C
Power supply 24 Vdc with dedicated power saving circuit (*)
Servo controlled gas/air ratio controller
Amplification factor 1:1
Pressure range 0.3 to 30 mbar
Zero adjustment range $-0.3/+0.3$ mbar
Zero adjustment of pre-set value with offset cap fitted: $-/+ 0.11$ mbar

(*) the used electronics for the 848 Sigma PS must be safe at second fault (acc. to EN 13611 clause 6.6 class C)

849 SIGMA

Two electro-magnetic shut-off valves class B + J or B + C or
One electro-magnetic shut-off valve class B
Pressure regulator class B with current controlled modulation device
Pressure ranges: 0.3 to 15 mbar

849 SIGMA MOD-S

Pressure regulator class B with current controlled modulation device
Pressure ranges: 0.3 to 15 mbar