

# Certification Record

CUSTOMER	CLASS	FILE
Moeller GmbH Hein-Moeller-Strasse 7-11 Bonn, , 53115 Germany	2252-01 PROCESS CONTROL EQUIPMENT-	012528-C-000
<b>Refer to Class Description for program details</b>		

- Programmable Logic Control System, open types, PS416 with the following suffixes BGT-400, BGT-410, BGT-420, BGT-421, POW-400, POW-420, CPU-223, CPU-200, CPU-300, CPU-400, INP-400, INP-401, OUT-400, OUT-410, AIN-400, AIO-400, NET-220, NET-230, NET-400, NET-440, COM-200, NOP-200, CNT-200, CNT-201, TCS-400, BKS-400, MOD-200.

## Notes:

1. These devices are open type programmable controllers for rack mounting. It consists of power supply, CPU board and various input and output units.
2. The type designation of the modules may be extended by a number, indicating minor mechanical and/or electrical variations.
3. The controllers are suitable for use in ambient temperatures of 55C.
4. The logic control system is certified as a component for use only in other certified equipment where the suitability of the combination is to be determined by CSA.

## ELECTRICAL RATINGS

Plug-in Module	Function	Max. El. Rating	Max. Circuit to Ground Voltage
BGT-400	rack 9 free spaces	----	----
BGT-410	rack 13 free spaces	----	----
BGT-420	rack 19 free spaces	----	----
BGT-421	rack 19 free spaces	----	----
POW-400 (420)	power supply	0.5-8A/5V dc	230V ac
CPU-200	Central processing unit	1A/5V dc	5V dc
CPU-223	central power unit	0.5A/5V dc	5V dc
CPU-300	Central processing unit	1.5A/5V dc	5V dc
CPU-400	central power unit	1A/5V dc	5V dc
INP-400	16 digital input	6mA per channel/24V dc	24V dc
INP-401	16 digital input	6mA per channel/24V dc	24V dc
OUT-400	16 digital output	0.5A per channel/24V dc	24V dc
OUT-410	16 digital output	2A per channel/24V dc	24V dc
AIN-400	8 analog input	see next page	10V
AIO-400	4 analog input 4 analog output	see next page	10V
NET-210	SUCOnet K	700mA, 5V dc	5V dc
NET-220	Interbus S	1.7A, 5V dc	5V dc
NET-230	Profibus	1A, 5V dc	5V dc

NET-400	SUCOnet K	250mA, 5V dc	5V dc
NET-440	Profibus DP	0.8A/5V dc	5V dc
COM-200	communication assembly	1A, 5V dc	5V dc
NOP-200	cover plate for unused spaces	_____	_____
CNT-200	counter	95mA, 24V dc	24V dc
CNT-201	counter	300mA, 24V dc	24V dc
TCS-200	communication assembly	1A/5V dc	5V dc
BKS-400	bus coupler (set)	2 x 0.5/5V dc	5V dc
MOD-200	serial interface	5V dc, 500mA	5V dc
NET-441	Profibus-DP(slave)	5V dc, 500mA	5V dc

Maximum operating ambient 55C

AIN-400

Voltage:

Channel 0-3: 0-1V,  $\pm 5V$ ,  $\pm 10V$ , 0-10V

Channel 4-7: 0-1V

Current: 0-20mA, 4-20mA

AIO-400

Input/output voltage  $\pm 5V$ , 0-5V,  $\pm 10V$ , 0-10V

Input/output current 0-20mA, 4-20mA

- Programmable Logic Control System

PS4-101-DD1, PS4-111-DR5, PS4-201-MM5, PS4-401-MM2, PS4-141-MM1, PS4-151-MM1, PS4-341-MM1.

EM4-101-DD2, EM4-111-DR2, EM4-101-AA1, EM4-101-AA2, EM4-102-AA5,

EM4-201-DX1, EM4-201-DX2, EM4-202-DX1, EM4-101-TX1, EM4-204-DX1.

LE4-116-DX1, LE4-116-XD1, LE4-108-XR1, LE4-104-XP1, LE4-622-CX1, LE4-308-HX1, LE4-308-XH1.

LE4-501-BS1, LE4-503-BS1, LE4-505-BS1, LE4-206-AA1, LE4-206-AA2, LE4-116-DD1, LE4-108-XD1,

LE4-633-CX1, ZB4-501-UM2, ZB4-501-TC1.

Notes:

1. These devices are open type programmable controllers for panel DIN rail mounting.
2. PS4 devices are master units complete with power supply, CPU, input and output functions.
3. EM4 are slave units provided with power supply and input/output functions. LE4 are expansion units with input/output functions.
4. The units may operate in ambient temperature of 55C maximum.

## ELECTRICAL RATINGS

Model/No	Power Supply	# of Channels and Input Rating	# of channels and Output Rating
PS4-101-DD1	24V dc 0.2A	8 digital 24V dc	6 digital 24V dc, 0.5A 24V dc, 0.5A p.d.
PS4-111-DR5	240V ac 0.1A 50/60Hz	8 digital 24V dc	6 relay, 2A 240V ac 50/60Hz 240V ac, 1.5A p.d. 24V dc, 2A
PS4-201-MM5	24V dc 0.8A	8 digital 24V dc	6 digital 24V dc, 0.5A

		2 analogue	24V dc, 0.5A p.d. 1 analogue
PS4-401-MM2	24V dc 0.8A	4 digital 24V dc 6 analogue	3 digital 24V dc, 0.5A 24V dc, 0.5A p.d. 3 analogue
PS4-141-MM1	24V dc 0.3A	16 digital 24V dc 2 analogue 0-10V	14 digital 24V dc, 0.5A 1 analogue 0-10V
PS4-151-MM1	115-230V ac 50/60Hz 0-15A	16 digital 24V dc 2 analogue 0-10V	8 relay, 2A, 24V dc 240V ac, 50/60Hz 1.5A p.d. 1 analogue 0-10V
EM4-101-DD2	24V dc 0.1A	8 or 10 digital 24V dc	6 or 8 digital 24V dc, 0.5A 24V dc, 0.5A p.d.
EM4-111-DR2	240V ac, 0.3A 50/60Hz	8 digital 24V dc	6 relay, 2A 240V ac, 50/60Hz 240V ac, 1.5A p.d. 24V dc, 2A
EM4-101-AA1, EM4-101-AA2	24V dc 0.15A	6 analogue 24V dc 0-5V 0-10V +/-5V, +/-10V	4 analogue 0-10V +/-10V
EM4-102-AA5	24V dc 0.15A	6 analogue 24V dc 0-5V 0-10V +/-5V, +/-10V	4 analogue 0-10V +/-10V
EM4-201-DX1(5), EM4-201-DX2	24V dc 0.8A	16 digital 24V dc	-
EM4-202-DX1(5)	24V dc 0.8A	16 digital 24V dc	-
EM4-204-DX1	0.8A/24V dc	digital 24V dc	_____
EM4-101-TX1(2)	24V dc 0.15A	6 temperature (PT, Ni) 2 analogue 0-10V	-----
LE4-116-DX1	24V dc 0.1A	16 digital 24V dc	-
LE4-116-XD1 LE4-622-CX1	24V dc 0.1A	-	16 digital 24V dc, 0.5A 24V dc, 0.5A p.d.
LE4-108-XR1	24V dc 0.1A	-	8 relay, 2A 240V ac 50/60Hz 240V ac, 1.5A p.d. 24V dc, 2A
LE4-108-XP1	24V dc 0.1A	-	4 pneumatic 7 bar max
LE4-308-HX1	-	digital 8 x 120V ac 50/60Hz 240V ac/50Hz	-

LE4-308-XH1	-	-	8 x Triac 120/240V ac 50/60Hz, 0.5A
ZB4-501-UM2(3)(4)	100mA/9V	-	-
ZB4-501-TC1(2)	100mA/9V	-	-
ZB4-501-UM2	100mA/9V	---	---
ZB4-501-TC1	100mA/9V	---	---
ZB4-501-UM4	24V dc-0.1A	---	---
ZB4-501-TC2	24V dc-0.1A	---	---
LE4-116-DD1	----	8 digital 24V dc	8 digital, 24V dc, 0.5A
LE4-108-XD1	----	---	8 digital, 24V dc, 2A
LE4-633-CX1	----	3SSI	---
LE4-501-BS1	----	---	---
LE4-503-BS1	----	---	---
LE4-505-BS1	----	---	---
LE4-206-AA1	---	4 analogue 0-10V	2 analogue 0-10V
LE4-206-AA2	---	4 analogue 0-20mA	2 analogue 0-20mA
PS4-341-MM1	24V dc 1A	16 digital 24V dc analogue 0-10V	14 digital, 24V dc, 0.5A 1 analogue 0-10V
			8 relay
		12 digital	24V dc, 10A
		120V ac 50/60Hz	max 240W
PS4-271-MM1	120V ac 0.3A 240V ac 0.15A	240V ac 50Hz	240V ac, 10A
		2 analog 0-10V	max 2000VA
		0(4) -20mA	2 analog
		2Pt 1000/Ni 1000	0 (4) -10mA
			2 analog 0-10V
LE4-504-BS1	-----	-----	-----
LE4-504-BT1	-----	-----	-----
LE4-509-BS1	ELV	ELV	ELV

- Programmable controller, open types, Model Nos. Easy 412 followed by DC or AC, followed by R (C).

#### ELECTRICAL RATINGS:

Type	Input	Output
Easy 412-DC-R(C) (X)	8 digital, 24V dc	4 relay, max. 10A, B300, R300
Easy 412-AC-R(C) (X)	8 digital, 240V ac	4 relay, max. 10A, B300, R300
Easy 412-DC-TC(X)	6 digital, 24V dc 2 analog 0-10V or 2 digital	4 solid state, output 24V ac, 4A
Easy 412-DA-RC	6 digital, 12V dc 2 analog 0-10V or 2 digital 12V dc	4 relay, max. 10A-240V ac B300 R300
Easy 618-AC-RC	12 digital, 240V ac	6 relay, max. 10A-240V ac, B300, R300
Easy 620-DC-TC	10 digital, 24V dc, 2 analog or digital	8 solid state output, max. 4A, 0.5A each, Extra Low Voltage
Easy 618-DC-RC	10 digital, 24V dc, 2 analog 0-10V or 2 digital 24V dc	6 relay, max 10A, 240V ac, B300, R300
Easy 619-DC-RC(X)	10 digital, 24V dc, 2 analog 0-10V or 2 digital 24V dc	6 relay, max 10A, 240V ac, B300, R300

Easy 618-AC-RE	12 digital, 240V ac	6 relay, max 10A, 240V ac, B300, R300
Easy 619-AC-RC(X)	12 digital, 240V ac	6 relay, max 10A, 240V ac, B300, R300
Easy 620-DC-TE	12 digital, 24V dc	8 power transistor max 4A, 24V dc
Easy 621-DC-TC(X)	10 digital, 24V dc, 2 analog or digital	8 power transistor max 4A
Easy 200-Easy	---	---
Easy 205-ASI	---	---
Easy M8/M16K	Memory Module	ELV
Easy PC-CAB	Interface Cable	ELV
Easy 400-POW	0.2A, 240V, 0.4A, 120V ac	1.25A, 24V dc
Easy 200-POW	90mA/115V, 50mA/240V	250mA, 24V dc, 20mA, 12V dc
Easy 202-RE	---	2 relay max, 10A, 240V ac, B300, R300
Easy 618-DC-RE	12 digital, 24V dc	6 relay max, 10A, 240V ac, B300, R300
Easy 256-HCI	---	---
Easy 204-DP	---	---

Maximum operation ambient: +55°C.

- Programmable Controller, open types, Model Nos. Easy 819-AC-RC (X), Easy 819-DC-RC (X), Easy 820-DC-RC (X), Easy 821-DC-TC (X), Easy 822-DC-TC (X).

#### ELECTRICAL RATINGS:

Type	Input	Output
Easy 819-AC-RC (X)	12 digital, 240V ac	6 Relay max, 10A, 240V ac, B300, R300
Easy 819-DC-RC (X)	12 digital, 24V dc 4 available as analogue	6 Relay max, 10A, 240V ac, B300, R300
Easy 820-DC-RC (X)	12 digital, 24V dc 4 available as analogue	6 Relay max, 10A, 240V ac, B300, R300 1 analogue
Easy 821-DC-TC (X)	12 digital, 24V dc 4 available as analogue	8 transistor 0.5A each, 24V dc
Easy 822-DC-TC (X)	12 digital	8 transistor 0.5A each, 24V dc 1 analogue

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