



Certificate of Compliance

Certificate: 80024997

Master Contract: 175131

Project: 80024997

Date Issued: 2020-03-12

Issued To: **Elster GmbH**
Postfach 2809
Osnabrueck, Niedersachsen, 49018
Germany

Attention: Norbert Saalmann

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: *Grace Gao*
Grace Gao



PRODUCTS

CLASS - C333501 - SYSTEMS (GAS) Automatic Ignition and Components

CLASS - C333581 - SYSTEMS (GAS) Automatic Ignition and Components-Certified to U.S. Standards

Model Number BCU 4xx Burner control model with Power Module LM400

For Use With Natural, Manufactured, Mixed or Liquefied Petroleum Gases For Use With Natural or Propane Gases Spark Ignition Systems

MODEL NUMBER BREAKDOWN

Suffix

60	Direct Spark Ignition Systems
65	Direct Spark Ignition Systems with air/gas pressure switches
80	Version for pilot and main burner



Q	120V AC, 50/60Hz
W	230V AC, 50/60Hz
1	Ignition Transformer 100%
2	Ignition Transformer 19%
3	Ignition Transformer 100%
8	Ignition Transformer 33%
P0	Without base plate
P1	Standard
P2	M32
P3	Industrial plug connector
P6	Profibus
P7	Conduit
C0	No valve proving system
C1	With TC and POC valve proving system
C2	With POC valve proving system
D0	No high temperature operation
D1	For high temperature operation
D2	Flameless operation
0	Input functions: none
1	Auxiliary Gas
2	LDS
3	Additional gas and LDS
0	Pressure switches: none
1	Air pressure switch
2	Gas pressure switch
3	Air and gas pressure switch
K0	No connection plugs
K1	Connection plugs with screw terminals
K2	Connection plugs with spring force terminals
E0	Energy supply: via safety interlocks
E1	via L1
LM400	Power Module for 400 Series
Q	120V
W	230V
F0	Air actuator: none
F1	with IC 40 interface
F3	with air valve control
O0	Optional outputs: none
O1	not fail-safe
O2	fail-safe
E0	Energy supply: via F1/F2
E1	via L1
K0	No connection plugs
K1	Connection plugs with screw terminals
K2	Connection plugs with spring force terminals

Flame monitoring for BCU models: Ionization control (continuous or intermittent operation) or UV-Control (intermittent operation with UVS 5 and UVS 10 or continuous operation with UVC 1)



Input rating: 120/230Vac, 2.5A

Output loads:

Gas valve (V1), Mainsupply voltage V ac, 2A,

Gas valve (V2), Mainsupply voltage V ac, 2A,

Gas valve (V3), Mainsupply voltage V ac, 2A,

Gas valve (V4), Mainsupply voltage V ac, 2A,

Gas valve (V5), Mainsupply voltage V ac, 2A (optional).

Number of cycles (250,000)

The fail-safe outputs (valve outputs V1, V2, V3 and V4) and the air valve output are monitored for correct functioning and are thus not subject to a max. number of operating cycles.

Max ambient temperature 70 °C

Min ambient temperature -20 °C

Safety function	Timings (secs)
Max flame failure response time (adjustable with software).	1 to 4
Pre-purge time (adjustable with software)	0 to 6000
Max trial for ignition period (adjustable with software).	2-15
Valve sequence period (adjustable with software)	2-15

Notes:

1. Above model is certified as a component model to be used in CSA Certified equipment where the suitability of the combination is evaluated by CSA-Group.
2. The above, referenced models are provided with software Version as confirmed in Software report Appendix B; Control Class C

APPLICABLE REQUIREMENTS

C22.2 No.0-10

ANSI Z21.20 -2014

CAN/CSA C22.2 No. 60730-2-5-2014

CAN/CSA-E60730-1:15

General Requirements – Canadian Electrical Code, Part II

Automatic electrical controls for household and similar use-Part2
-5: Particular requirements for automatic electrical burner control systems

Automatic electrical controls for household and similar use Part 1:
General requirements



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80024997	2020-03-12	Update model BCU4xx to C22.2 No.60730-2-5-14 edition (based on report 1673133)