

Brabender Operator Interface Congrav® OP 15 for Multiple Feeder Control Systems with Congrav® CB *plus* or CBS

The Brabender Congrav® OP 15 is a touch screen operator interface for up to 16 gravimetric Brabender feeders (loss-in-weight feeders, weigh-belt feeders, etc.) in conjunction with the Brabender Congrav® CB *plus* or CBS control modules for DIN rail mounting in a control cabinet (see separate Works Standards).

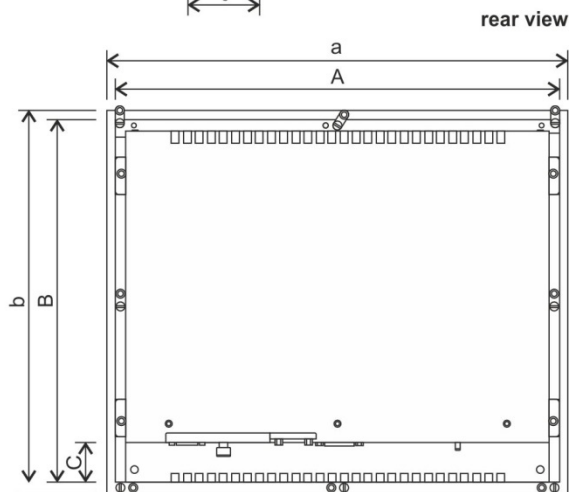
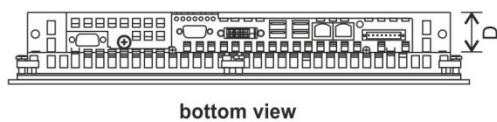
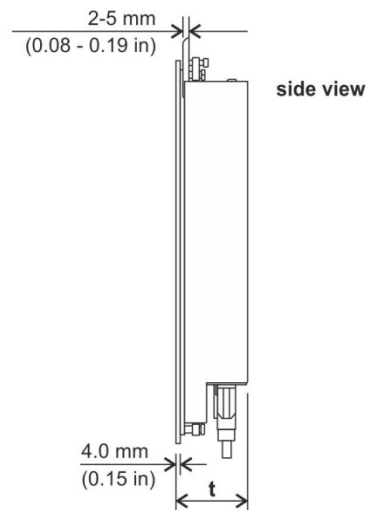
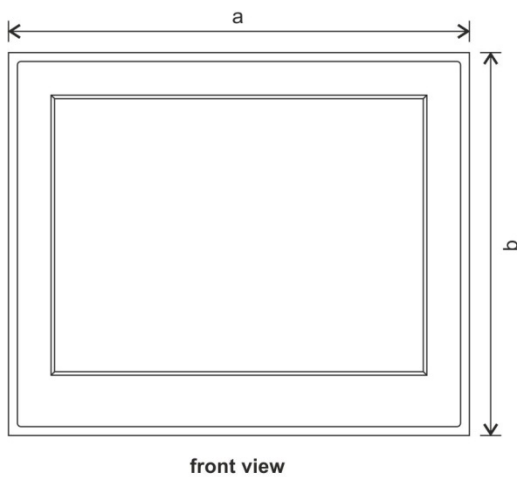
When the feeders do not communicate with host/PLC systems directly via the control modules (possible only with CB *plus*), the Congrav® OP 15 is either used as the operator interface within the Brabender SCC (Single Cable Connection) Field Bus System or as a local operator interface in connection with a system wide host/PLC system. To communicate with a host/PLC system, the Congrav® OP 15 is standardly equipped with a host interface (Ethernet Modbus TCP). An additional Profibus

interface is optionally available (only one interface can be used at a time).

The Congrav® OP 15 Operator Interface has a large 15" high resolution color touch screen and uses a simple symbol based touch screen menu including a virtual keypad to operate the feeders.

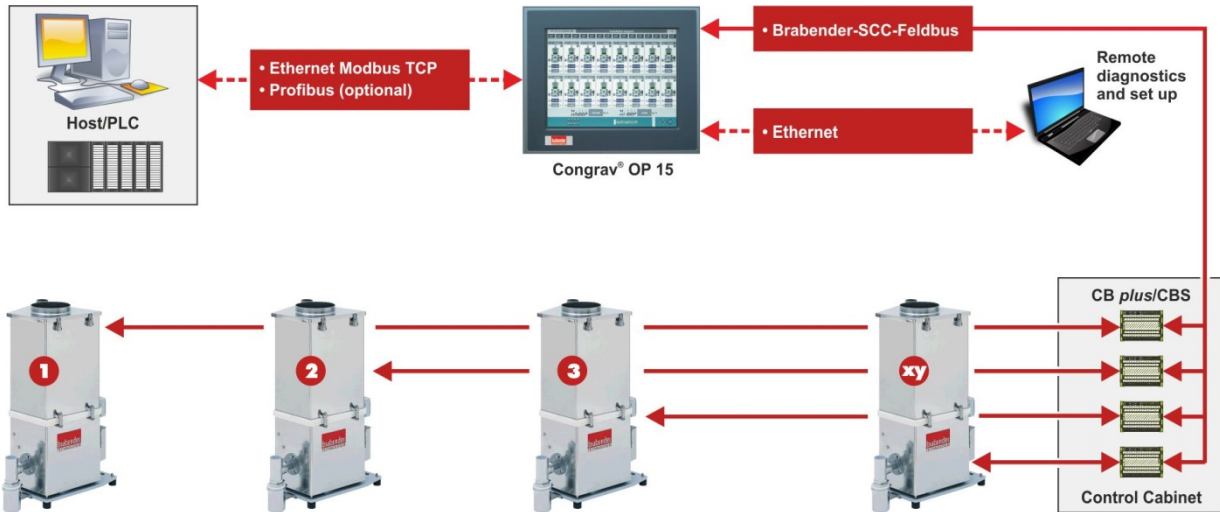
The menu programming is based on the Microsoft® Windows® Embedded operating system and the symbols are self-explanatory making it very user friendly. As a result, operator training time and errors are reduced.

The Brabender Operator Interface Congrav® OP 15 conforms to CE directives and features high electromagnetic compatibility.



	a	b	t	A	B	C	D
mm	380	315	59	366	301	41.2	33
in	14.9	12.4	2.3	14.4	11.8	1.6	1.2

Technical Data



Application

- Operation of up to 16 gravimetric Brabender feeders (loss-in-weight feeders, weigh-belt feeders, etc.) on a single cable bus (Brabender SCC) with Brabender Congrav® CB plus or CBS control modules (see separate Works Standards).
- Integration of volumetric feeders with variable speed motors is also possible

Design

- The Congrav® OP 15 is suitable for all vertical panel mounting, table top or wall mounting
- 15" backlit color display (touch sensitive)
- Symbol based interface with virtual keypad
- Graphic user interface
- Enclosure protection: rear housing IP20 (≈ NEMA 1), front IP65 (≈ NEMA 4)
- Supply voltage 22-30 VDC
- Max. power consumption ≈ 70 watt
- Operation in environmental condition of 0-45° C (32-113° F), max. 85 % humidity without condensation

Note: The above environmental conditions must also be complied with if the unit is mounted in a closed cabinet. In addition, the cabinet must be fan cooled. A clearance of 5 cm (1.9 in) must be provided on all sides for air circulation.

- Storage in environmental condition of 0-65° C (32-149° F), max. 85 % humidity without condensation
- Noise immunity as per EN 61000-6-2
- Noise emission as per EN 61000-6-4

Interfaces

- RS 485 interface for single cable connection of max. 16 gravimetric Brabender feeders (loss-in-weight feeders, weigh-belt feeders, etc.) in conjunction with the Brabender Congrav® CB plus control modules (1 module per feeder)
- Ethernet interface for remote diagnostics and set up
- Ethernet Modbus TCP to communicate with a system wide host/PLC system

Accessories/Options



- Digital I/O units for DIN rail mounting with 4 digital inputs (often used for start, stop, alarm reset, etc.) and 4 digital outputs (often used for run, alarm, etc.)
- Analog I/O units for DIN rail mounting with 2 analog inputs 0(2)-10 V (often used for analog control signal, etc.) and 2 analog outputs 0(4)-20 mA (often used for actual value, etc.)
- Additional Profibus interface to communicate with a system wide host/PLC system (if the Congrav® OP 15 is equipped with two interfaces, only one can be used at a time)



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Issue 12.0 (December 16)
Supersedes 5.0 (May 16)