Brabender Operator Interface Congrav® OP 15 for Multiple Feeder Control Systems with ISC-CM *plus*

The Brabender Congrav® OP 15 is a touch screen operator interface for up to 16 gravi-metric Brabender feeders (loss-in-weight feeders, weigh-belt feeders, etc.) with feeder mounted ISC-CM *plus*/ISC-FC *plus* control and speed control modules.
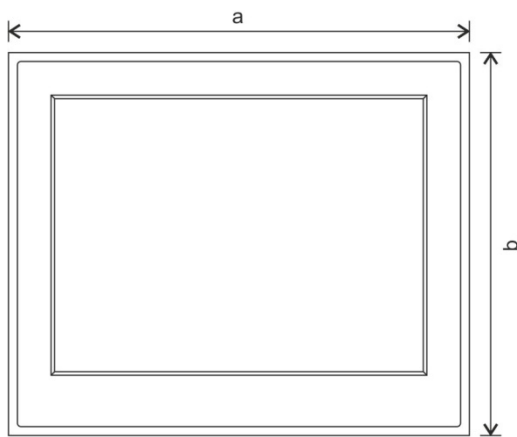
When the feeders do not communicate with host/PLC systems directly, the Congrav® OP 15 is either used as the operator inter-face within the Brabender SCC (Single Cable Connection) Field Bus System or as a local operator interface in connection with a system wide host/PLC system. To communicate with a 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).
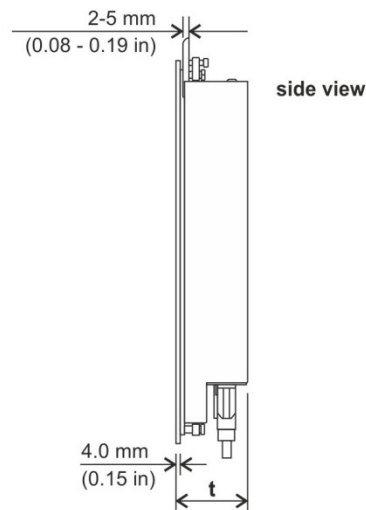
The Congrav® OP 15 Operator Interface has a large 15" high resolution color touch screen and uses a simple symbol based touch screen menu including a virtual key-pad to operate the feeders.

The menu programming is based on the Microsoft® Windows® Embedded operating system and the symbols are self-explana-tory making it very user friendly. As a re-sult, operator training time and errors are reduced.
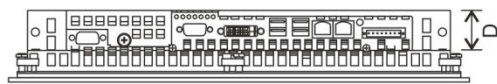
The Brabender Operator Interface Congrav® OP 15 conforms to CE directives and feat-ures high electromagnetic compatibility.
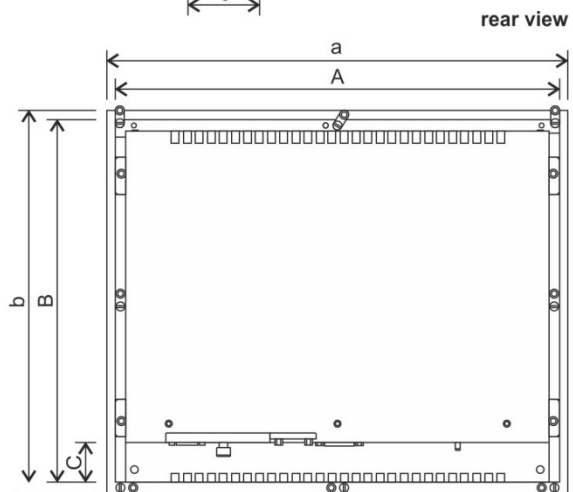

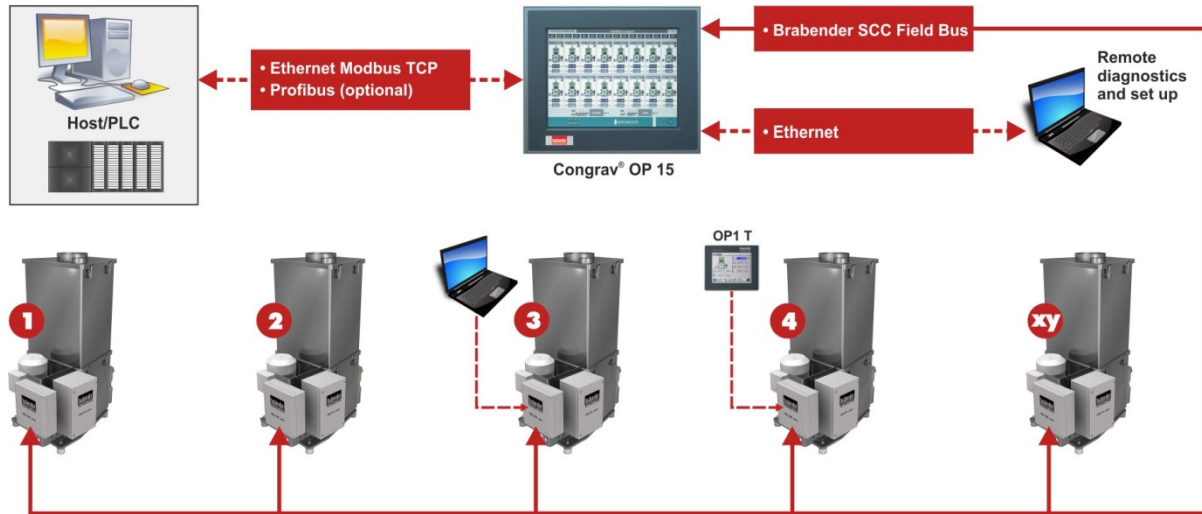| ⊠	a	b	t	A	B	C	D
mm	380	315	59	366	301	41.2	33
in	14.9	12.4	2.3	14.4	11.8	1.6	1.2

Technical Data

Application

- Operation of up to 16 gravimetric Brabender intelligent feeders (loss-in-weight feeders, weigh-belt feeders, etc.) on a single cable bus (Brabender SCC) with feeder mounted ISC-CM *plus*/ISC-FC *plus* control and speed 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 intelligent feeders (loss-in-weight feeders, weigh-belt feeders, etc.) with feeder mounted control modules ISC-CM *plus* and speed control modules ISC-FC *plus*
- 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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