

Operator Interface for a single feeder system with Congrav® CB-E or CM-E Controller

## General Information

The Congrav® OP-S is an operator interface that is connected to a [Congrav® CB-E](#) or [Congrav® CM-E](#) controller via a serial link. It provides the basic functions that are required for the operation of a single Kubota Brabender Technologie gravimetric feeder.

The Congrav® OP-S features a 7" colour touch screen which can be used to configure, control and set parameters. The versatile OP-S can operate the feeder or be used to monitor/set process variables and access diagnostics.

The Congrav® OP-S is compatible with all Kubota Brabender Technologie devices equipped with a Congrav® CB-E or CM-E control module.

The unit conforms to CE directives and exceeds all electromagnetic immunity standards.



## Interfaces

Interface to Congrav® CM-E or CB-E (RS 485)

The interface to Congrav OP-S from the control module will also provide the 24 VDC power supply for distances less than 20 m. For cable lengths greater than 20m a separate power supply is required.

## Technical Specification

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Rated voltage	DC 24V (19 - 36V) by via the control module CB-E or CM-E. No separate power supply required.
Residual ripple, spikes	< 200mVss; < 300mVss
Rated output	Typ. 8 VA
Rated current	300 mA
Ambient temperature	0°C to +50°C (32°F to +122°F)
Storage temperature	-20°C to +85°C (-4°F to +185°F)
Humidity of the air	Up to 85% without condensation
Touch-screen LCD colour display	7" (152,4 x 91,4 mm) with LED backlight
Touchscreen Type	Capacitive (Multi-Touch)
Resolution	800 x 480 (WVGA)
Viewing angle	20° - 160° (all directions)
Housing material	Stainless steel, powder-coated
Front framing	Aluminium
Mounting depth	100 mm (3.94 in) with angled plug connections
Panel cutout	194 x 133 mm (7.64 x 5.24 in)
Weight	Ca. 1,05 kg (2.3 lb)
Enclosure rating – Enclosure	IP65
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Type of menu	text-based menu with virtual keys

## Electromagnetic compatibility (EMC)

Requirement	Standard
Interference	EN IEC 61000-6-2
Emission	EN55011 Cl.A

## Additional Information

- [Dimension template](#) (for installation in a cabinet)
- [Foot](#)