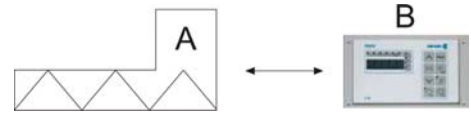


Typical Application of a volumetric feeder control.

- A Screw Feeder
B Controller

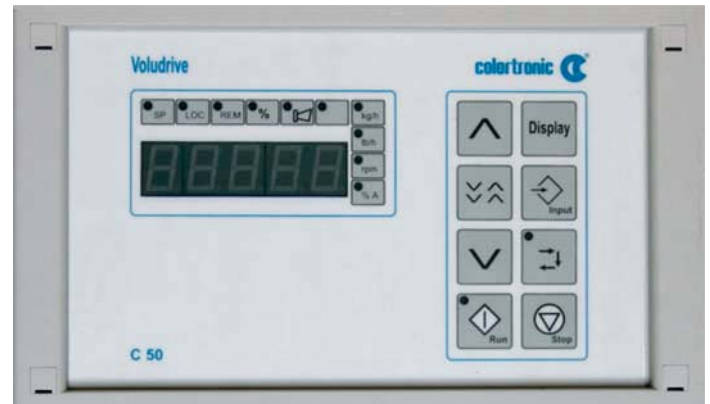


Component B is described below.

Brief Description

The Colortronic Voludrive C50 is a microprocessor based controller used to operate volumetric feeders in continuous and batch applications. Voludrive makes the operation of any DC driven feeder easy. Functions such as calibration, total mass flow, instantaneous mass, motor speed, current percent are built in to the unit. The operator simply calibrates the unit, enters the desired mass flow and starts the unit.

To maintain precise control of variable speed DC motors the Voludrive utilizes pulse width modulation technology. This technology keeps the motor torque constant over the entire seed range. The drive operates with a built-in quartz clock and digital control circuit that is directly tied into the encoder speed feedback from the dosing monitor. This architecture enables the motor speed setpoint to be maintained to an accuracy of one RPM. Inputs are made using a rugged keypad. All operating conditions are displayed via easy to read symbols.



- Colortronic dosing controls are maintenance free and designed for 24 hours, three shift operation
- Colortronic dosing controls meet "CE" requirements

Technical Information

Basic Version

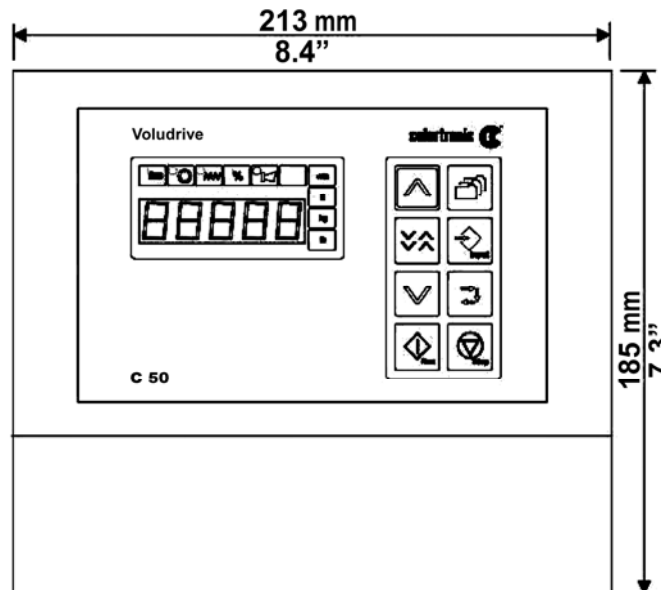
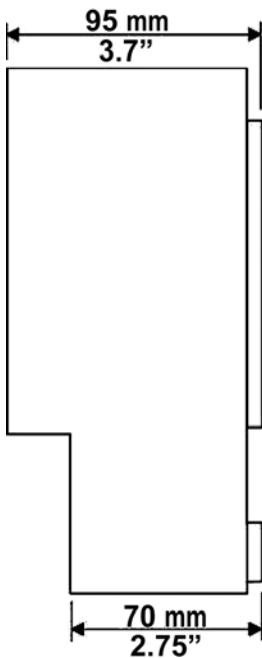
- 5 digit LED display
- Memory backup for control parameters
- Start/stop input, dry contact
- Alarm output, dry contact
- IP 64 protection
- Fused outputs
- Operates between 32° F to +122° F (0° to + 50° C)
- Operating voltage 110/230 VAC +/- 10% 50/60 Hz
- Maximum connected load 650 W
- Maximum power output 500 W
- Output voltage 180 VDC PWM
- Output current 2.7 A 180 VDC, max. 4.0 A
- Thermal overload protection
- Required 5VDC encoder, 3KHz, maximum at full speed

Functionality

- Direct input of desired setpoint
- Calibration function for throughput control
- Operating conditions shown via symbols
- Totalizer display

Optional Equipment

- 750W high power unit
 - Dual drive unit for C-Flex
- Outputs:
- Alarm relay, line voltage powered NO or NC (5 amp fuse)
 - Run relay, line voltage powered NO or NC (5 amp fuse)
- Inputs:
- Remote alarm reset, dry contact
 - Remote start/stop, dry contact
 - External setpoint:
 - Voltage 0-10V
 - Current 0-20 mA
 - Frequency 0-10 KHz



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