# Processelektronik AB
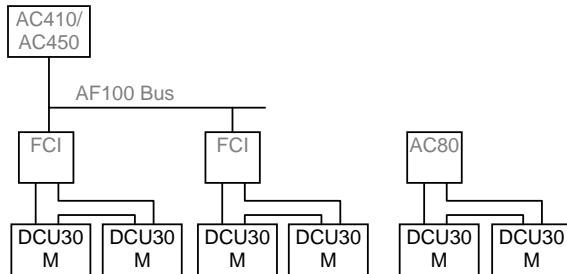## PE1357    DCU30M Drop in Panel        Datasheet

### General
The DCU30M is a drop in panel designed to be operator interface on **ABB DDCS** protocol. DCU30M operates together with AC70, AC80, AC410 and AC450. The panel is operating at 4Mbit-communication speed.

### Configuration example



The panel contains 16 characters x 2 lines alphanumerical LCD-display with background light and 16 pushbuttons with light indications. Each push button may have an individual color and description made by a paper or PVC stripe.

The display can operate in ASCII mode or numerical mode. In ASCII mode both text lines are designed in AdvantController using TEXT elements. In numerical mode the display can be divided into one to six different fields of optional size where each field can contain text or value. The presentation in the different fields of the display is controlled by logical signals from the ABB AdvantController unit.

The DCU30M may have up to 240 different text strings stored. The texts that can be presented on the display are preloaded to a separate memory chip of the DCU30M at delivery. It is possible to update text strings from the ABB Advant Controller AMPL language. This is recommended because update of text strings can be made automatically when adding or replacing DCU30M. It is also possible update text strings from a PC. Connection is then made to the RS232 port on DCU30M.
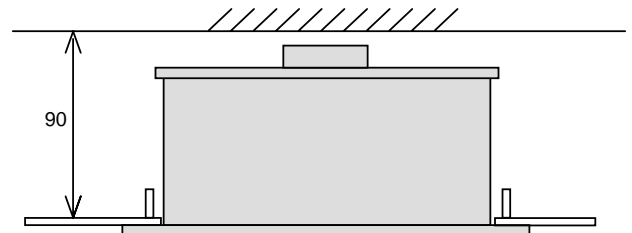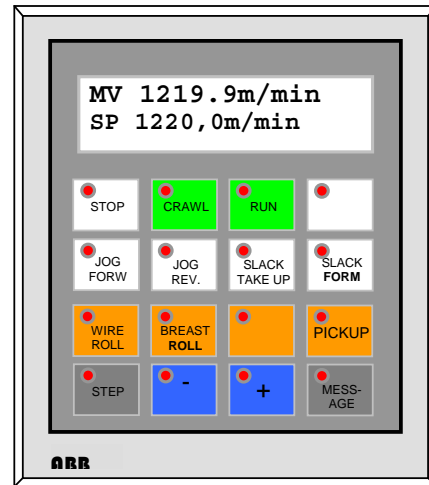
### Push button identification inserts
Each push button may have an individual color and a description with five characters on line one and nine characters on line two and three.
Materiel: White PVC or other nontransparent
Thickness: 0.2mm

### Technical description
To obtain the best immunity to electric noise the DCU30M front panel must be electrically connected to the control desk panel through the fix screws in each corner.

### Front view





### Data
#### Power supply
+24V DC (12-30V DC), typical 2.5W, startup 8W.
Communication:Opto fiber:Transmission speed 4Mbit
Max length : 200m of 200µmHCS (Use TB810) or 15m 1.0mm plastic (Use TB810 or TB811)
Connector type HP Versatile link can handle both plastic and HCS fibre.

#### Dimensions
Front size: 178mm x 204mm (w x h)
Cut out size: 154mm x 180 mm
Screw positions: 160.4mm x 185.8mm
Drill hole diam: 5.5mm
Required mounting deep: 90mm

### Environmental data
Operation +5..+40 °C., Storage -40..+70 °C.
Immunity standard  (Industrial)  EN 50082-2/1995
Emission standard(Industrial) EN 50081-2/1993
Enclosure class: Front: IP65, Back side: IP00