



Procon Engineering

(A Division of National Oilwell Varco UK Limited)



Type EP52 Batch & Process Weigh Controller

IP65 front panel

Fully programmable high level sequence control language – on site

Primary load cell, input with additional analogue process inputs and outputs option modules.

Integrate with PLC's and SCADA systems

99 recipes – 16 ingredients user defined & named

114mm x 64mm backlit graphics and text display

Ethernet IP & ProfiBus DP optional interfaces

2 programmable serial interfaces with various protocols including Modbus

The EP52 Batch Controller is a versatile process control instrument capable of controlling a complete plant area. At the heart of the Batch controller is a unique and powerful sequence control language designed to be easily programmed by plant engineers but having the flexibility to meet the requirements of sophisticated control applications. Using a few straightforward commands the user can build a control sequence capable of managing a process all the way through to the final product.

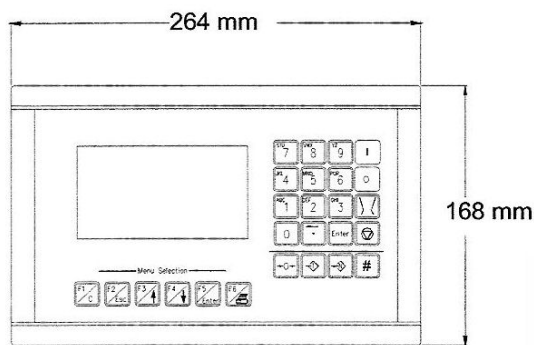
Central to the batch controller operation is the recipe system. A recipe may be likened to the list of different ingredients, and the quantities used when following a recipe from a domestic cookery book. Using the same analogy, the method can be compared to the Batcher sequence. It describes the order in which ingredients are added, when they are mixed, heated or cooled etc. Multiple recipes can be stored and these may be easily selected and used by the Batch controller in conjunction with the sequence, to manufacture the final products.

The EP52 is also available as a Loss of Weight or Beltweigher Controller using identical hardware.

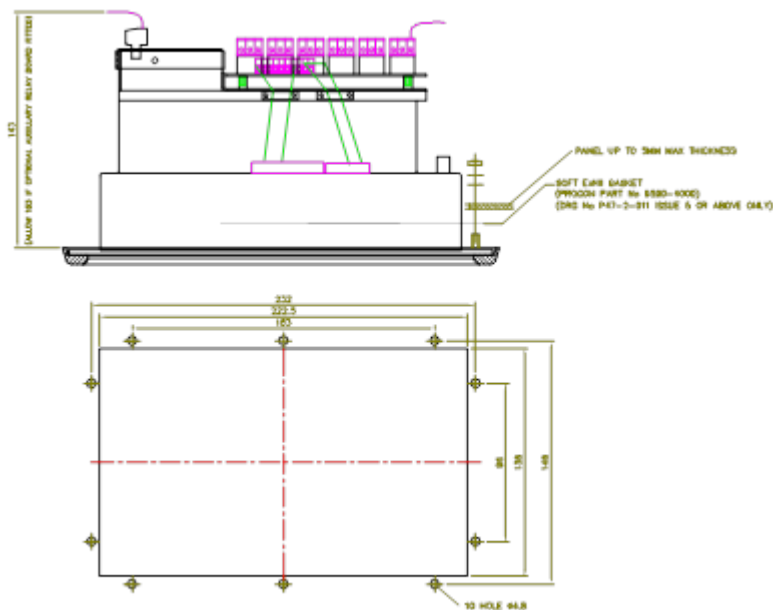
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Technical Specification Sheet

SPECIFICATION	
Power:	24 volt DC nominal tolerance 18v to 34v – 40VA consumption
Primary loadcell input:	Powers up to 6 x 350 ohm loadcells
Accuracy:	10000 divisions OIML (instrument fraction)
Optional auxilliary input:	6 x 350 ohm loadcells, or 0 to 10V, 4 to 20mA.
A/D conversions:	24 bit resolution
Serial interface port 1:	RS232 and RS485 2 wire/4wire (software configured)
Serial interface port 2:	RS232 and RS485 2 wire/4wire (software configured)
In-built digital inputs:	6 x opto isolated 12 to 32 Vdc (with wetting voltage)
Standard outputs:	10 plus watchdog/open collector (relay modules available)
Option additional I/O:	Up to 31 relay outputs and 16 digital inputs
Optional analogue output:	0 - 10V & 4 – 20mA, 12 bit – isolated
Display:	114mm x 64mm graphics and text
Keyboard:	Polycarbonate overlay with tactile keyswitches
Environmental:	Operating temperature range 0 to +45 degrees C
Sealing:	IP65 (front panel only)
Weight	3.5 kg



PROCESS BATCH CONTROL SOFTWARE	
System:	16 dual speed ingredient outputs
Outputs:	4 level alarms, 8 level trips
Outputs:	4 process timers
Outputs:	8 sequence driven outputs
Outputs:	2 process analogue output channels
System:	15 general purpose digital inputs
Inputs:	5 pre-configured digital inputs
Inputs:	1 load cell input channel
Inputs:	1 optional auxiliary channel
Programme:	2 independent sequences of 200 steps
Programme:	Sequences assignable to 99 recipes



Procon Engineering's policy is one of continuous product enhancement.

We therefore reserve the right to incorporate technical modifications without prior notification. E&OE.

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