

KOAL PRESS - PRESS CONTROLLER

Press Controller

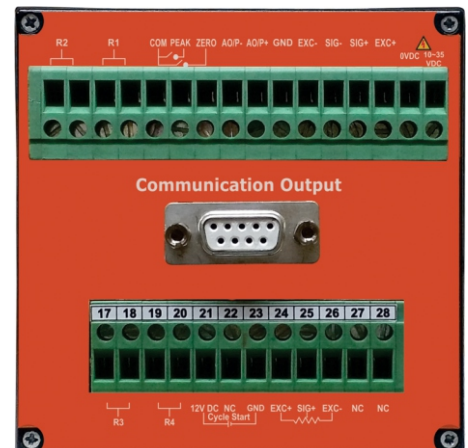
Koal Press controller offers an Industry standard solution at most optimized cost. This however surpasses all the features of the typical PLC based Press Controls. The major trade-off with Koal Press controller is that you get to have 24-bit resolution and an integrated fast response control option touch screen interactive MMI for parameter set, recipe recall and value and status display.

Typical Press controls on most assembly machines involve a PLC, MMI with Load cells and Displacement sensors with Signal conditioners or Indicator controllers. This scenario has the following limitations

The setup sequence is simple and quick. It supports fast and high resolution measurements. The 2.8 inch resistive touch screen display is an impressive and user friendly interface for navigating the settings and menus.

FEATURES

- TFT 320 X 240 (2.8") Resistive touch screen multi-colour display.
- Easy to understand; User friendly special icons; Password protection for settings,
- User configurable input sampling and display update speed
- Nonvolatile memory retains all programmable parameters and display values.
- RS232 and RS 485 communication port for PC interface.
- Remote Peak & Tare option; Engineering unit selections.
- Soft Calibration by sensor rated value or actual / field load.
- 8 Recipe can be stored for load vs Displacement.



Typical PLC Controlled Press	Koal Press Controller
10, 12, max 16-bit resolution on load & displacement sensors	24-bit resolution
Separate signal conditioners for force and displacement sensors	Integrated with controller. Sensor can be directly connected
Separate power supply for sensors	Integrated with controller. Sensor can be directly connected
High speed input counter for encoder inputs	Default options
Subsequent Calibration to be done on signal conditioner & PLC	Touch calibration on Koal for both load & displacement parameter
Display of values part of PLC Logic MMI	Dedicated display on values and status
Multiple vendor and support points scenario	Integrated supports and backup
Specialized skills for installation	Quick set-up

TECHNICAL SPECIFICATION

INPUT CHARACTERISTICS	
Power Supply	12 ~ 35V DC
Excitation for sensor	+5VDC @ 50mA ±1% (Both Load cell & Displacement)
Input signal	Up to 8mV/V (Strain Gauge Sensors)
	0-10VDC (Potentiometer)
Decimal point	1~3 Points user selectable (X.X, X.XX, XX.XX & X.XXX)
Input sampling	1 ~ 300 Samples Per Sec User configurable (ADC > 1000 Samples Per Sec)
A/D Converter	24 bit resolution

Specifications are subject to change without Prior notice

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□ DISPLAY CHARACTERISTICS

Display	2.8 inch TFT, Touch Screen, Color
Display update speed	1 ~ 32 Samples Per Sec User Configurable

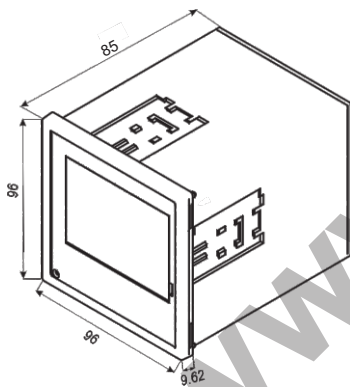
□ OUTPUT CHARACTERISTICS

Relay output for Load Cell	2 Relay (5A/230VAC)
Relay output for Displacement	2 Relay (5A/230VAC)
Analog signal	0-±10VDC, 0-±5VDC, 4-20mA, 0-20mA User selectable
Communication interface	RS-232, RS-485
Option	PC Suite Software for Data Logging

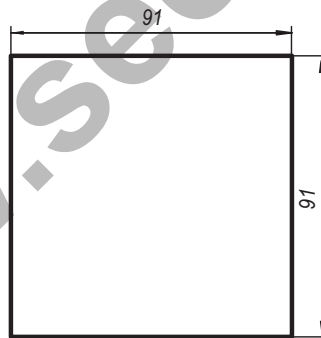
□ GEOMETRICAL CHARACTERISTICS

Termination	PCB terminal block
Wire Strip Length	9mm
Wire Gauge Capacity	24 to 14 AWG (0.2 to 2.08 mm ²)
Torque	0.4-0.5 N-m
Ingress Protection	IP40 Enclosure rating
Operating temperature (°C)	0 - 50
Storage temperature (°C)	-10 - 60
Case dimension (mm)	96*96*85
Weight (g)	500

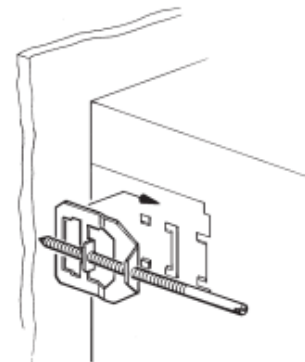
DIMENSIONAL DETAILS



PANEL CUTOUT



MOUNTING ACCESSORIES



OTHER RELATED PRODUCTS



FCIT

Gaman

RISIS

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