Digital Indicating Controller
Used for By-pass Damper

Model No. : UC10

POUSHALI ELECTRONICS

P/11A, Second Street,
Modern Park,
Kolkata - 700 075
Ph No. -2416 2259, 9432249938

Email info@poushalielectronics.com
subrata.sd@rediffmail.com
Website www.poushalielectronics.com

Digital Indicating Controller **Model No. : UC10**

INTRODUCTION :

The Poushali Electronics make Digital Indicating Controller has been designed to measure the value of different parameter of process and display the value.

The Instrument is front panel mounting type and hazard free in operation. It is designed in tw0 no. of basic cards, namely 'Main Card', and 'Display Card'.

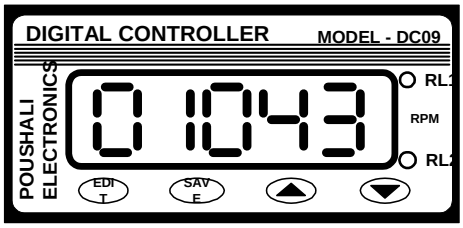
The micro controller based instrument is having 5digit LED Display and four touch keys for programming and control indication along with LED as describe bellow.

KEYs:

1) EDIT KEY
2) SAVE KEY
3) UP KEY
4) DOWN KEY

LED:

1) Relay:- Relay LEDs will glow when relay will be ON



OPERATION:

There are three modes of operation - "EDIT" or Supervisory Mode, "SET" or Operator Mode and another is "RUN" mode.

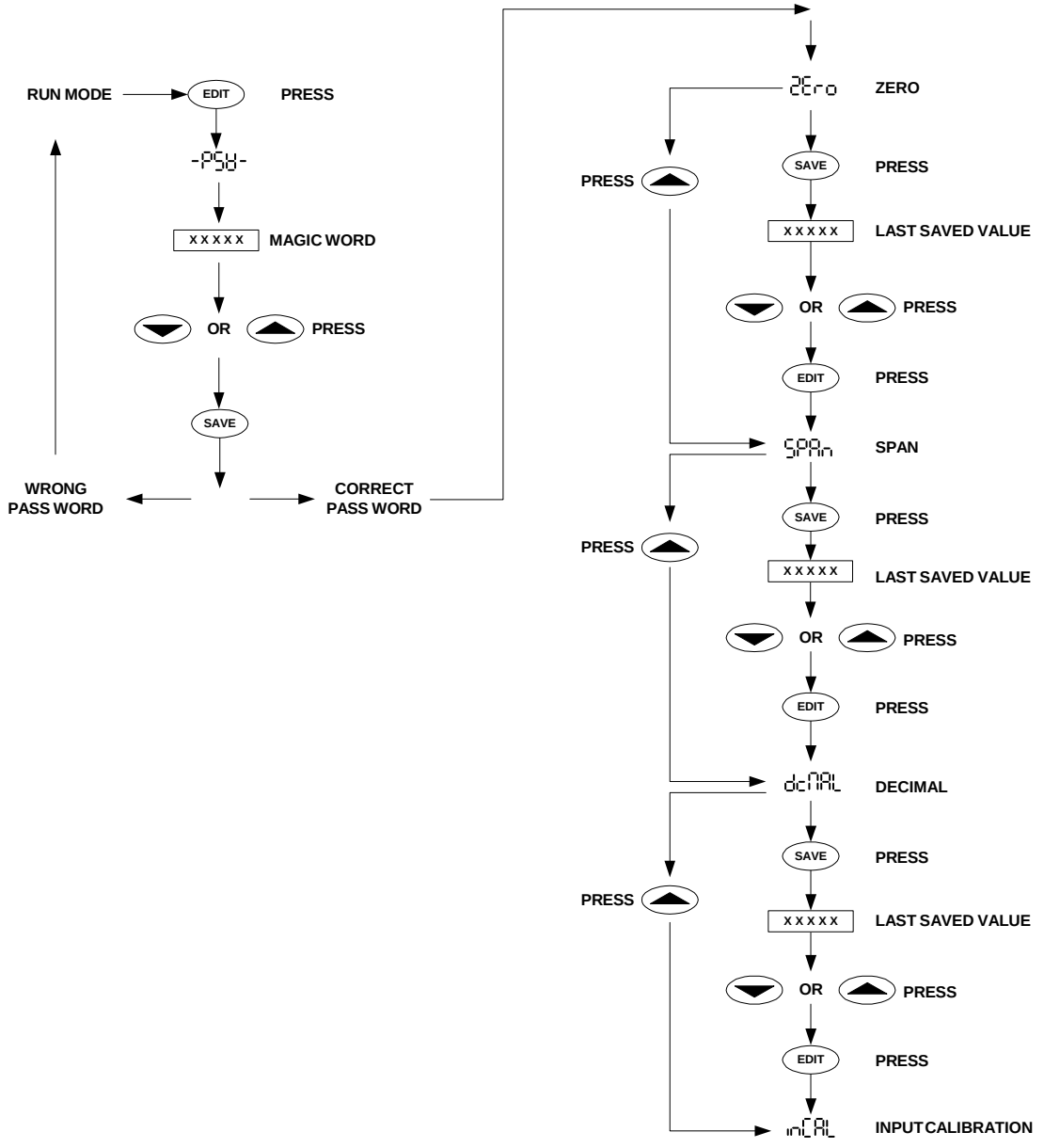
EDIT Mode:
In this mode Controller can be configured and calibration can be done. For that this mode is password protected.

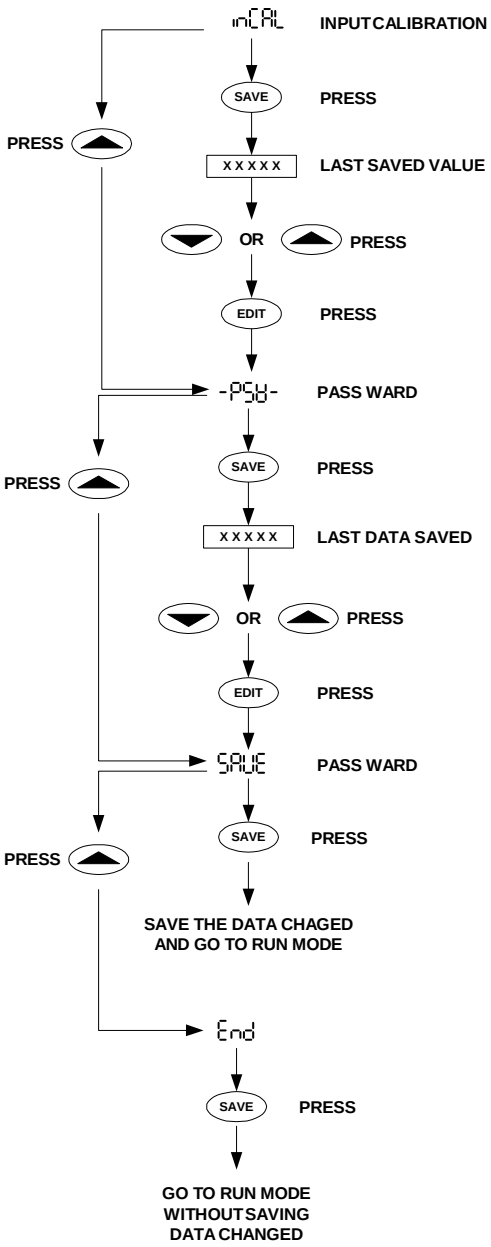
SET Mode:
In this mode Relay set point can be set.

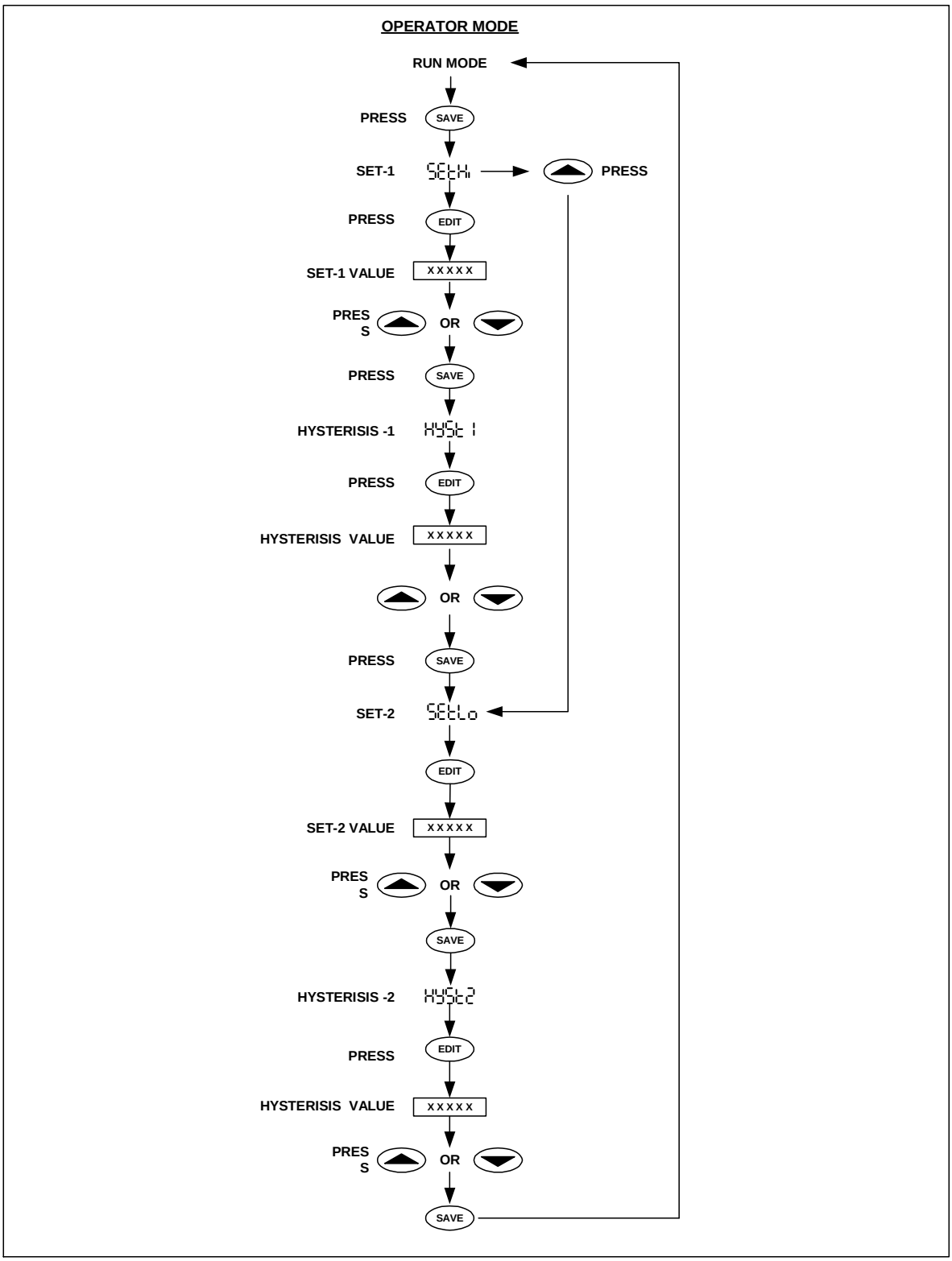
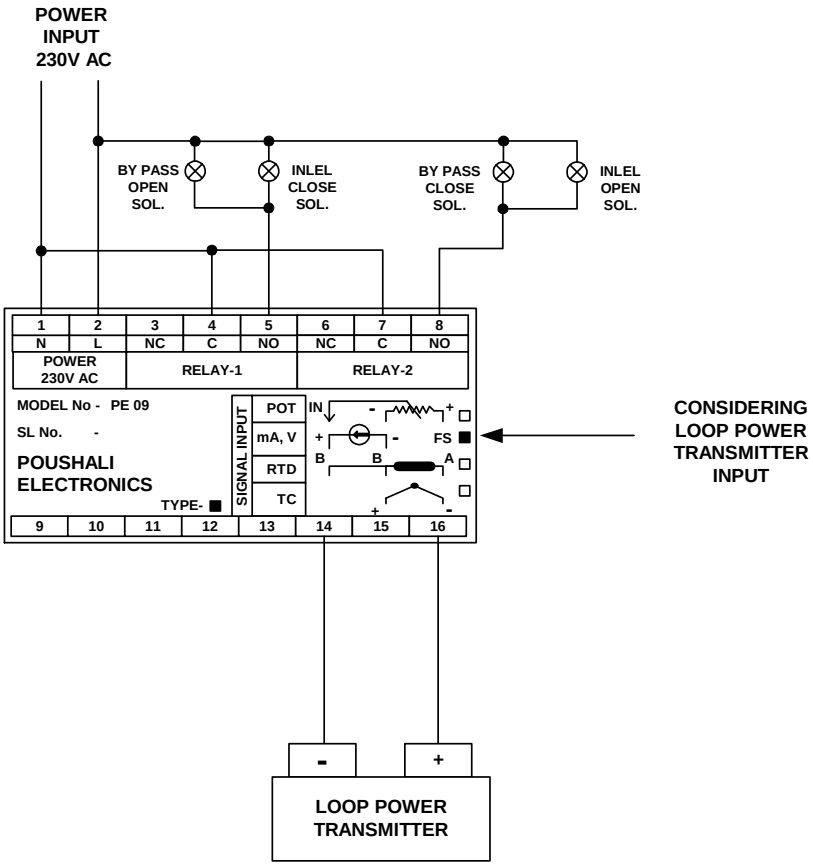
RUN Mode:
In this mode Controller shows the process valus and takes relay acction as per set point. At the time Power On, bellow Lo-Setpoint the Relay-1 will On for minimum 5 sec and By-Pass Damper will Open and Inlet Damper will Close. When temperture increases and croses Lo-Setpoint, Relay-2 will On for minimum 5 sec and By-Pass Damper will Close and Inlet Damper will Open.
Again when temperture increase and croses Hi-Setpoint, Relay-1 will On for minimum 5 sec and By-Pass Damper will Open and Inlet Damper will Close.
Again when temperture decrease and comes down bellow Hi-Setpoint, Relay-2 will On for minimum 5 sec and By-Pass Damper will Close and Inlet Damper will Open.
In that The Controller controls the Damper system.

"EDIT" and "SET" modes operation are define bellow.

CONFIGARATION MODE




inCAL
INPUT CALIBRATION
SAVE
PRESS
PRESS
XXXXX
LAST SAVED VALUE
OR
PRESS
EDIT
PRESS
-PSW-
PASS WARD
SAVE
PRESS
PRESS
XXXXX
LAST DATA SAVED
OR
PRESS
EDIT
PRESS
SAVE
PASS WARD
SAVE
PRESS
PRESS
SAVE THE DATA CHAGED
AND GO TO RUN MODE
End
SAVE
PRESS
GO TO RUN MODE
WITHOUT SAVING
DATA CHANGED


OPERATOR MODE
RUN MODE
PRESS
SAVE
SET-1
SEtHi
PRESS
PRESS
EDIT
SET-1 VALUE
X X X X X
PRES S
OR
PRESS
SAVE
HYSTERISIS -1
HYSt 1
PRESS
EDIT
HYSTERISIS VALUE
X X X X X
OR
PRESS
SAVE
SET-2
SEtLo
EDIT
SET-2 VALUE
X X X X X
PRES S
OR
SAVE
HYSTERISIS -2
HYSt2
PRESS
EDIT
HYSTERISIS VALUE
X X X X X
PRES S
OR
SAVE

SAMPLE WIRING DIAGRAM OF DAMPER CONTROLLER FOR 230V AC INLET AND BY PASS DAMPER SOLENOID COIL