

Model PBI-1 – BROKEN BAG INDICATOR



Broken Bag Indicator, PBI-1 offered by Para Electronics is suitable for Fluidized Air Bed Dryers used in Pharmaceuticals and Chemical Industries. PBI-1 works on tribo-electric principle. Current pulses generated due to the impact of powder leak, are sensed by the probe unit mounted in the exhaust duct. These input pulses are converted into 4 to 20 mA output. The Readout unit displays the current value in % on a Bar Graph Display. 4 to 20 mA output and potential free Alarm Relay Contacts are available for PLC operations.

To avoid false alarms and to detect genuine broken bag, time delayed alarm circuit is incorporated in the readout unit. Delay time is adjustable between 7 to 70 seconds. Self diagnostic current input signal is internally fed to the probe to continuously monitor the reliable functioning of the Broken Bag Indicator. The distance between the probe unit and readout unit can be as long as 20 to 25 meters.

Specifications

READOUT UNIT

Input Current	: 4 to 20 mA as received from Probe Unit
Display Readout	: Bar-Graph type Green color LED Indicating input current & set alarm level
Preset Time	: Settable between 6~7 to 60~70 sec (approx)
Alarm Output	: LED indication on front panel Change Over Relay Contacts
Power	: 240V AC Mains, with proper earth

PROBE UNIT

Input Range	: 0 to 10 nA
Output Range	: 4 to 20 mA
Power Supply	: \pm 12V DC (Internally generated by Readout Unit)
Connector	: Allied type MS 3102R-14S-6P MIL Grade 6 Pin Male Connector
Probe	: SS, 10mm dia x 250mm long, <i>Suitable for duct sizes of 200, 300, 400 mm dia</i>
Electronics	: Aluminum housing, 95 mm dia x 70 mm long
Mounting	: 1" dia Standard NPT threads

MECHANICAL

Dimensions	: 150 L x 50 D x 100 H mm
Weight	: Approx 1 kg
Cable	: 20 meter long Interconnecting cable

Due to continuous R&D, specifications are likely to change without notice

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