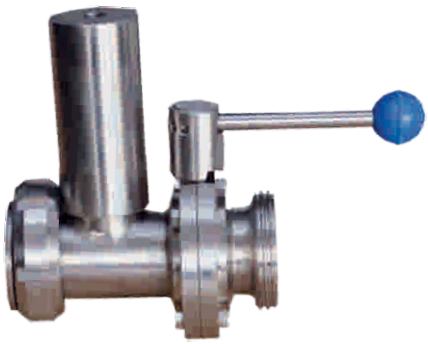
BMC DATA LOGGER



Description

REIL is leader in the field of Dairy sector for supplying state of art Milk collection systems, Milk Analyzers etc to strengthen the village milk cooperative societies all over the country. BMC Data logger is designed to online monitor critical parameters of BMC

The objective of the BMC data logger is to provide online monitoring of milk temperature and volume stored at BMC and to protect the milk from getting sour and spill over. The real time data of milk stored at various BMC help in better management of milk at Dairy.

In addition with volume & temperature it also provide near real time data of compressor, agitator, generator and grid supply. Various alarms are also designed for emergency conditions such as temperature violation, DG, GRID, Compressor events or agitator events, Milk Volume lifting Events, CIP detection.

Web and mobile application developed to monitor various parameters related to BMC and to provide daily, weekly and Monthly reports.

Features

- Standard RTD temperature sensor
- Precision pressure sensor for volume measurement.
- Data logging of Milk temperature and milk Volume vs time.
- Data logging of power, DG, GRID, compressor and agitator.
- Alerts for temperature violation, DG, GRID Compressor & agitator events Milk Volume lifting event (Volume above 1% of Capacity)
- User level access control
- Local Data Storage
- System & sensor/ peripherals, health checkup and status on server.
- SMS alert on registered mobile
- Data uploaded on web & mobile application.
- Comparative analysis of BMC
- System and peripheral health status on server
- SS 304 food grade assembly
- Power consumption with duration & KWh
- Hot CIP adherence
- Daily, Weekly & Monthly reports on web application.

Hardware Features

BMC Data logger takes the data of milk temperature, volume from RTD temperature sensor, pressure transmitter and convert into digital form. The temperature & volume data along with power supply data are uploaded to web application. It also provide emergency alarm for critical parameter violation.

Specifications

1. BMC Monitoring Unit

- Processor : AVR Microcontroller
- Display : 128 X 64 Graphic LCD, Blue STN, White LED Backlight
- Data Storage Capacity : Up to 16 GB on SDCARD
- Programming : Onboard
- SIM Network : GSM/GPRS 2G/3G/4G LTE
- Sensors : Temperature, Volume in term of pressure, Agitator & Compressor ON/OFF, DG & GRID ON/OFF
- Indicators : Power, Network, DG, GRID, Compressor 1 & 2, alarms
- Operating Range : 5-65ºC
- Power supply : AC: 230/440V, 1ϕ/3ϕ, 50 Hz or Battery 12V DC (Max + 10%, Min - 15%)
- Power consumption : 50 W (Max)

2. Sensor Module

- Temperature sensor : RTD 0-80ºC
- Volume Measurement : Through Pressure Sensor upto 10K Litre
- Housing of sensors : SS304 with IP68 compliant
- Accuracy- Temperature : +/- 1.0 ºC
- Accuracy- Volume : +/- 0.3% to 0.5% of BMC Volume

3. Web & Mobile Application

- Platform : Android as well as iOS Platform
- Dash board : For monitoring of important parameters
- Reports : Milk Temperature, volume, lifting time, CIP, Compressor & DG running time, Cooling Duration, Power consumption, fault, performance, deviation, comparative analysis, monthly reports location, capacity & BMC Manufacturer wise.

Regional Offices

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