



- Battery Operated Field Monitor
- Solar Battery Charger for Filed Monitor
- SMS based Data Transmission
- High Performance Level Sensor
- Easy to install
- Internet connectivity
- Printer option on Data manager
- Remote Display with Serial Interface

This Indicator is capable of storing one year's Level data captured at pre-fixed interval. This interval can be programmed from 1 hour up to 12 hours-depending on the seasonal requirements. It also has a built-in GSM modem. The Monitor wakes-up at redefined interval and sends SMS to Preset Mobile numbers. The Monitor also sends logged data, daily, for last 24 hours of hourly data of level and reservoir contents- to a website. This website can be then viewed by authorized personnel any where through internet. Logged data can also be manually put over the web from desired date and time to desired date and time.

PREFACE:

Reservoir Level Monitoring system is a comprehensive solution giving irrigation engineers a powerful means to monitor and distribute information to command room, handling several reservoir sites for water distribution and flood management

The main system components are as follows:

- 1 RLM-66: Field Level Monitor
- 2 DU -09 : Data Manager
- 3 RD -09 : Remote display

RLM-66 FIELD LEVEL MONITOR is a low power Level Monitor with Level sensor interface with data logging and RTC (date/ time). It also has a content Table which is loaded with level vs. Content data, that is applicable to the concerned reservoir.

RLM-66 is self powered with rechargeable battery which in turn gets recharged by a Solar battery charger. It features rugged IP65 weather proof Die-cast Aluminum enclosure.

RLM-66 uses a Hydrostatic Level Sensor to measure water level. It is a Submersible High Performance sensor, with no moving parts. Thus it ensures long years of trouble free service. The Sensor is simply dipped in the reservoir, much below the minimum water level expected in the reservoir and at Known level (Datum). It is also very easy to install with minimum site preparation. The sensor can be easily pulled out for inspection & cleaning

DU -09 DATA MANAGER has an alphanumeric local display with facility to receive SMS data sent by the Field Level Monitor. This unit acts as a central Data collection master. collects data and stores it in its memory with time stamp. The Data Manager can drive a 80 Col. Printer, a Remote Display over Modbus. It is powered with Mains supply and UPS is optional.

RD-09 REMOTE DISPLAY displays LEVEL & CONTENTS, DATE and TIME of data update and can be located up to 1km away and is powered locally.

SPECIFICATIONS:

Field Level Monitor

a. Display	: 16 X 2 A/N LCD with Backlight
b. Keys	: Membrane type
c. Power	: 11 to 14 Vdc
d. Battery Life (7 AH ,12 V SMF battery)	: a. Typically >10 days with one charge (with hourly SMS & GPRS active) b. Continuous with Solar Charger
e. Solar Charger	: Suitable for 7 AH, 12 V SMF Battery
f. Calibration	: Software calibration
f. Data Logging and RTC	: Stores data for 1 year at 1 hour interval
g. Communication	: Built in GSM Modem
h. Housing	: Alu., Weather-Proof , IP65

Electronic Level Sensor

a. Type of Sensor	: Strain Gage Bridge
b. M.O.C.	: SS304, PU
c. Range of Level measurement (*)	: 5m , 10m, 30m, 50m
d. Accuracy of measurement	: $\pm 0.5\%$ of F.S.
e. Resolution	: 1 cm. (ie. 0.01m)
f. Cable	: Submersible type *
g. Sensor Support	: SS Rope Support
h. Accessories	: Mounting Bracket

* To be ordered as per site requirement .

Data Manager

a. Display	: 16x2 A/N LCD Display
b. Keys	: 6 key Membrane type
c. Power Supply	: 90 to 250Vac, 10VA max
d. Data Logging and RTC	: Stores data for 1 year @ 1 Hr. interval
e. Communication	: Built in GSM Modem
f. Printer Interface	: Standard 80 column Dot Matrix
g. Housing	: Weather-Proof , IP65

Remote Display

a. Display	: 1" LED Display Level, Contents, Date Time
c. Power Supply	: 6 to 12 Vdc, optional 230Vac
d. Power Consumption	: ~10VA
e. Communication with Data Manager	: RS485 with MODBUS protocol
f. Housing	: Wall Mounting Sheet Metal enclosure



Phone : 09879598521

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57, Shree Hari Estate, Panna Estate Road, B/h. BOC gas, N.H. 8, Rakhial, AHMEDABAD-380023, Gujarat

www.rajinstruments.com
email : raj.instruments@gmail.com