

APPLICATION NOTES

2 in 1 Analog Panel Meters in Agricultural Pump Control Panels



Introduction:

Agricultural motor-pump sets are essential for farmland irrigation through sprinkler or flood systems, operating in various sizes, capacities, and efficiencies. To effectively regulate water flow and level, these pumps are governed by dedicated agricultural pump control panels that integrate level and flow indicators, electrical meters, switchgear, and protective controls for functions like speed regulation and fault prevention. Because these panels are installed outdoors and subjected to high temperatures and moisture, their components must be ruggedly built to withstand harsh weather conditions and ensure reliable operation.

The Problem:

As these panels are installed in farmlands, space allotted for its installation is limited. Where in manufacturer of agricultural pump control panel needs to design and manufacture panels considering constraints in space and provide a low-cost solution, affordable for farmers.

Present Scenario

Analog panel meters used are generally for measuring voltage and current of motor-pump set. For this, individual meters were installed that occupy more space and increase the cost of manufacturing.

Our Solution:

Considering all the above factors like proper space utilization, minimum components - a cost -effective solution was proposed. We suggested a combination of voltmeter and ammeter in a single enclosure i.e. a 2 in 1 analog panel meter, capable of reading out both voltage and current parameters at the same time in a single meter.

The Benefits:

- Space utilization to its fullest
- No change in readability
- Meters which can sustain outdoor atmospheric conditions
- Economical than using two separate meters
- Can be implemented in various field applications
- Significant savings on cost of manufacturing and implementation

Contact:

For feedback, partnerships, or further information, please feel free to contact us at:

- **Domestic (India):** +91 253 2202029/026/099 | Email ID: marketing@rishabh.co.in
- **International:** +91 253 2202004/006/008/099 | Email ID: global@rishabh.co.in



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