

CG APPLICATIONS

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Application Note:	March 25th 2008
Market involved :	Light & medium industries, building automation
Product :	EM21-72D AV53 X O S X
Customer :	Panel Builder
Subject :	Low-voltage distribution system.

CUSTOMER ISSUE :

The low-voltage distribution systems require to maximise stacking density to minimise the switchgear or control-gear footprint.

Each unit includes an incoming feeder and several outgoing units (each of which is supplying a part of a building, a single department, or a group of loads) having a reduced size.

An outgoing unit is connected through a bus-bar system to the mains, and has its own main switch in order to connect/disconnect the whole loads fed by it.

It would be very useful to have the possibility to monitor the voltage in any outgoing unit, to control other electrical variables and to get the energy consumptions data directly from an instrument on the unit front panel, even if the available space is very limited.

OUR SOLUTION:

The compact size of EM21-72D is the ideal solution "where there is no room enough" exploiting in the best way the space on the panel and behind it.

Used in combination with our new CTD-series (the compact current transformers), it offers a complete solution for energy management in MCC's and PCC's, without requiring larger frames.

ACHIEVED BENEFITS:

The additional RS485 allows a full BMS integration providing to the user all necessary information relevant to the system, even the variables that, to have a simple and easy-to-read meter, are not available on the display.

The patented detachable display allows EM21-72D to be mounted as a transducer as well.

