



Energy Meters with a Centralised Pro-face Energy Display

Up to 31 DTS353-100A-M and/or LP-KWM 1 and 3 phase meters can be remotely monitored by one Pro-face Touch Screen



LP-KWM



DTS-353-100A-M

Connected to

Pro-face

for the best interface



GP4201TM

CARREL-ELECTRADE LIMITED

**Application**

To provide a centralised display of several energy meter readings, where the meters are remote and not always accessible. This system is suitable for check metering for factory / shop units or domestic apartment buildings.

Pro-face Screen

The Pro-face screen can be any of the panel mount 4000 series but in this case the GP4201TM mono screen has been selected. It will be configured to suit the exact number of meters installed with one meter per page. The screens are programmed to sleep when not used after a short period or the display can be powered off when not needed. Turn the power on again or touch the screen to wake it up.

No on site programming should be required.

A 24vDC power supply is required to power the display.

Mod-Bus communication

Using the Modbus RTU RS485 wiring system up to **31** remote meters can be read via a Pro-face RS485 communication port so long as the correct cable, wiring method, and maximum cable distance (800-1000m) is adhered to. It is important to note that the wiring route must be one long serial connection and not star or spur connected. Each extreme end of the RS485 circuit should be terminated with the appropriate resistor. Cable shields should be earthed at one end only of each run. The wiring and commissioning of the communications should be performed by a tradesman familiar with Modbus RS485 installations. A basic wiring diagram will be available.

Configuration of Meters

The meters need to be set up with each having a unique identity address. This needs to be done prior to the meters leaving Carrel Electrade Ltd.

They will each be labelled as such and need to be installed in the correct site locations.

Configuration of the Pro-face screen

The screen can be supplied as shown.

However it is possible to change the meter labels to site specific names, or unit numbers, prior to the display being shipped from Carrel Electrade Ltd and installed.