# LATIN TECH



## WWW.LT-AUTOMATION.COM

### Network enabled for easy connection

**CubelP Meters** are fitted with a standard RJ45 connector and use proven Network Protocols including Passive FTP & MODBUS TCP **Network Communications** Readings are automatically transmitted to a

remote server at preset intervals using passive FTP or SNMP protocols **Readable with any Web Browser** 

With an integral web-site, a standard web browser is the only software

necessary to access the Meter. 8 web pages, all customisable, provide

Meter readings & graphs; further pages can be added

## **Embedded Software**

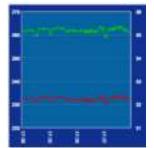
Software needed for configuration & commissioning is built into the meter. With SVG graphics, graphs & screens can be scaled and panned at will **Real-time graphics** 

Using Java applets and SVG graphics, graph data can be easily scaled to anv

screen size and is constantly updated

## **Read Meters across the Internet**

See *www.cubeip.co.uk*, where a *CubeIP Meter* is measuring the energy consumption for part of our site. With the correct permissions set, any meter can be read from anywhere



## **Data Retention**

Readings are stored within the meter at pre-set intervals. If network communications are lost, readings are retained locally for later transmission



## **Read Gas and Water Meters**

Digital Inputs are available as an option. If connected to the pulse outputs of other meters, their readings are then available for transmission.

## Multiple access to all meters

With CubelP Meters, multiple users can access the same Meter, reading different data at different rates

## Local Alarms

Digital outputs, available as an option, can be programmed as alarms — for excessive Demand, high Neutral Current, ...; any Meter parameter can be used. These outputs can also be used for local control. (2 outputs are available)

## Secure Data Backup

Each Meter can regularly transmit selected parameters to a remote server. Parameters, transmission frequency and destination URL are all freely programmable. Standard FTP protocol is used, thus ensuring free passage through firewalls

## Data Export

An 'Excel Web Query' page allows direct import of selected data into any standard desktop application – such as a spreadsheet or word processor. This data can be automatically updated if required.

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## Easy Installation

With metering and the network interface inside a standard meter, installation is simple:

— The electrician understands the electrical connection

— The IT specialist understands the RJ45 connector

#### System Integration

Readings can be *pushed* by the Meters — using passive FTP

or SNMT protocols — or *pulled*, using MODBUS® TCP

## Easy Retro-fit

**CubelP Meters** are available for interface with the

special miniature split current sensors *Power Quality* 

**CubelP Meters** are not just intended for Energy Management. THD & the individual voltage and current

harmonic are also measured; as is Neutral Current,

Current Demand, etc

#### SCADA and Process Control

With industry standard MODBUS® TCP protocol, *CubelP Meters* can be easily integrated into

most Process

Control Systems. Individual or multiple Registers can be

accessed and read by the software - every second if

necessary

## Accurate Meter Reading & Billing

**CubelP Meters** make Meter Readings available to any PC –

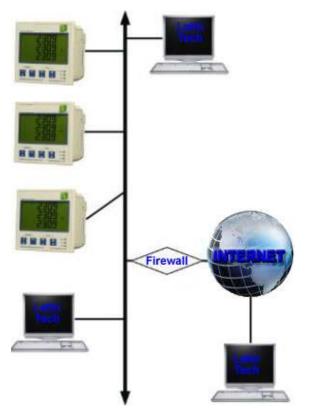
on the same network or anywhere over a link that can be

as secure as necessary. Individual Energy Registers can

be accessed and read by billing software – daily, weekly

or monthly as required, The possibility of errors – as can  $% \left( {{{\mathbf{r}}_{\mathrm{s}}}_{\mathrm{s}}} \right)$ 

occur where pulses are read and remotely counted – are eliminated.



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## **Brief Specification**

#### **Network Interface**

**RJ45** Connector 10BaseT Cat5 Cabling **IP Protocols** FTP, TFTP & SNTP MODBUS® TCP Fixed IP address (User configured) DHCP & SNMP in development Web Server HTTP HTML Format, SVG for dynamic graphics 8 split Direct Display Pages Additional user-configured pages can be added 'Excel Web Query' Page Network Configuration Page Meter & FTP Data Transmission Configuration Page Time

A software real time clock is integrated, synchronised to local or global time server using the SNTP protocol **CubelP Meters** CubeIP 350 & CubeIP 350V CubeIP 400 & CubeIP 400V In Production Rail Ip 350 & Rail Ip 350V In Development **Meter Inputs** Voltage 230/400v Standard 63/110, 120/208 & 277/480v Optional Current Standard Meter 5 Amp (or 1 Amp) Retro-fit Meter To suit Split Sensors Frequency Fundamental 45 – 65 Hz Harmonics To 30th at 50Hz Individual To 15th Aux Supply Standard 230V ± 15% 50/60Hz Optional 110Vac; 24, 48 or 110 Vdc **Meter Options Digital Inputs & Outputs** 

2 digital Inputs for external pulsing devices or status 2 digital for Alarm or local control