ACU
Multi-Circuit Meter

Electric Submetering for Multi-Circuit Applications

With a built-in web server and ability to export energy usage data in spreadsheet format the ACU is the ideal platform for multi-circuit submetering applications.

Save interval data down to 1-minute resolution to your PC in spreadsheet format with the click of a button or have energy usage summaries and monthly peak demand readings sent to your email address automatically using the BTi Energy Manager services.

For small installations the ACU's integrated web pages give you all the data and reporting you need. View real time data at any time using the web browser on your PC. Save energy usage reports with the click of a button.

For large installations the ACU integrates smoothly into existing building automation systems using automated file transfers and standard communication protocols.

Submetering has never been this easy and affordable.

Simple

- All in one energy management system
- Monitor up to 27 circuits with just one ACU
- View data using the web browser on your PC
- Save energy usage spreadsheets to your PC with a mouse click

Cost Effective

- Self contained system for small installations means no monthly phone or internet fees
- Equipment cost benefits from using one sub-meter to monitor many circuits
- Reduced installation time and wiring costs compared to single circuit meters

Flexible

- Built-in web server allows connection using standard web browser
- Integrate into building management systems
- Built-in Ethernet (10/100Mbps) and Serial (RS-232/485)
- Modbus and DNP3.0 eliminate the need for extra converters
- Measure multiple voltage sources on a single ACU

Contact us for more information:

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BTi Energy Management

BTiEnergy.com

ACU
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Technical Specifications

Model Types
9 or 27 circuits (3PT/27CT)
4 or 12 circuits (3PT/12CT)
**other combinations on request (Eg. 6PT/24CT, 15PT/15CT)*

Inputs Types
Voltage: 120/240, 415/240, 208/120, 277/480 VAC
CTs: 1A, 5A

Communication Ports
1 10/100BaseT Ethernet port
1 RS-232/485 port
1 RS-485 port
1 RS-232 maintenance port

Measurements
Volts, Amps, Frequency
kW, kVAR, kWhr, kVARhr
Peak demand, THD
Interval data down to 1-min
2 month storage at 15-min

Accuracy

Volts, Amps:	±0.2%
kW, kVAR:	±0.5%
frequency:	±0.01Hz

Power Supply
20-60Vdc input
150VAC isolation
Reverse polarity protection
Input fuse protection
15V max input supply

Field Terminations

PT/CT:	#10 AWG barrier
Earth Ground:	#12 AWG
RS-232/485:	DB9 Female (232)
RS-485:	#12 AWG (485)
Ethernet:	RJ45

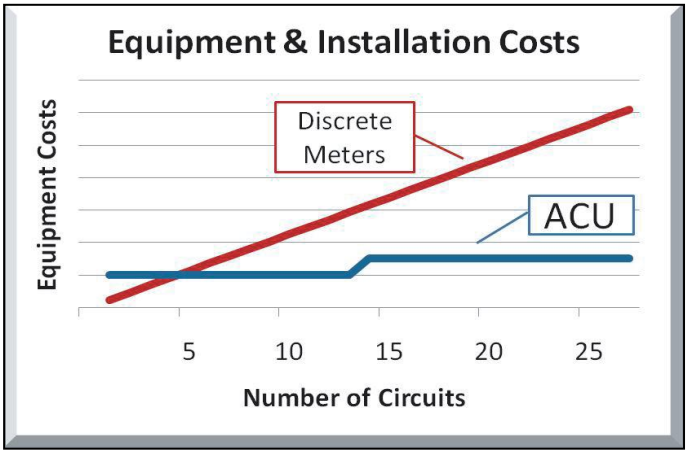
Dimensions

15 PT/CT:	19" x 8.75" x 2.75"
30 PT/CT:	19" x 10.5" x 4.5"

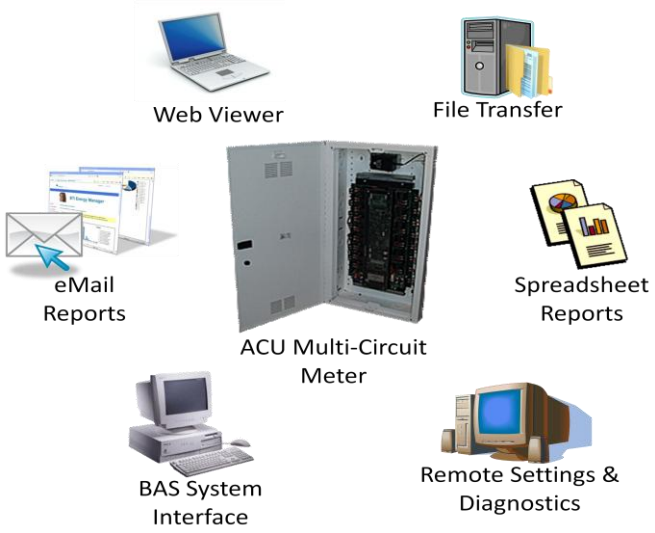
Environmental
Temperature: -25° to +70°C
Storage Temp: -40° to +85°C
Humidity: 93% non-condensing 55°C

Safety
UL and cUL approved
CE marked

Cost Characteristics



Communications



File Transfer
HTTP file transfer
FTP file transfer (via web service)
File Grabber* coordinates data transfer from multiple ACU meters to your PC (no FTP server req'd)
Spreadsheet format reports (csv)

Automated email Reporting
Daily energy readings reports
Summary graphs
Spreadsheet file attachments
ACUs automatically register with the email server

WebView Pages
View web pages using any standard Internet browser
View real time and historical data
Standard units on all values (V, A, kW, kVAR)
Download energy usage summary reports
Download detailed load profile spreadsheet reports

Communication Protocols
Connect to existing Building Automation Systems
Connect to third party reporting packages
Modbus (Serial and Ethernet)
DNP3.0 (Serial and Ethernet)

BTi Energy Management