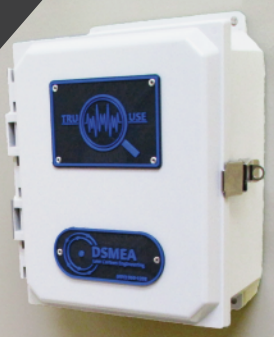
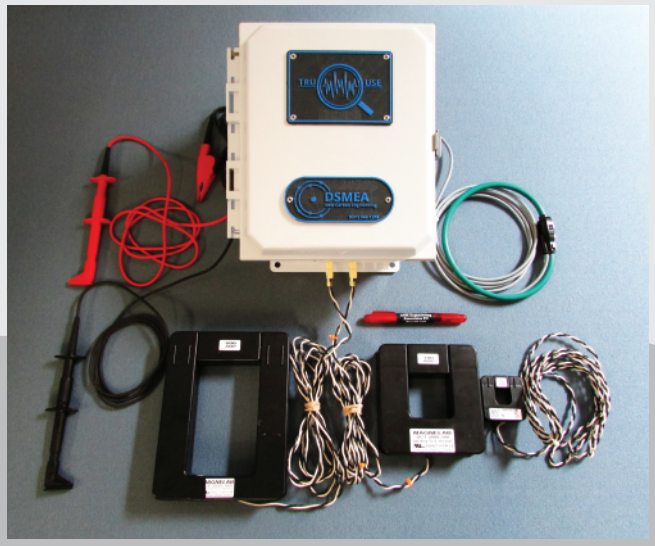
MONITOR EVALUATE VERIFY SUPPORT SAVE

Tru-Use™ Energy Monitoring

Tru-Use™ is a combination of load-profiling equipment and methodologies developed to help bridge the informational gap faced by facilities without access to a building management system.

Billing data from local utilities is commonly used for project development and economic performance analysis, mainly because it is the only data available for a majority of buildings. Utility data is a good starting point, but it only can alllow for the estimation of key energy parameters within a facility, like minimum electrical demand and peak thermal loads. There is no way to account for these details accurately with only this data, which is why Tru-Use™ was developed. Whether it's a simple energy audit, or for tracking power generation from green technology, Tru-Use™ tells the whole story.





Tru-Use™ is entirely scaleable to suit your facility, which ensures that the installed system is as economical and efficient as possible. It can monitor electrical use, thermal use, or both, based on your facility's needs and project demands.

Each Tru-Use™ box can monitor up to four three-phase cicuits, and will provide real-time remote data access. The unit can also import data from other systems by MODBUS protocols, so thermal data can be accessed online by the same unit that provides the electrical data.

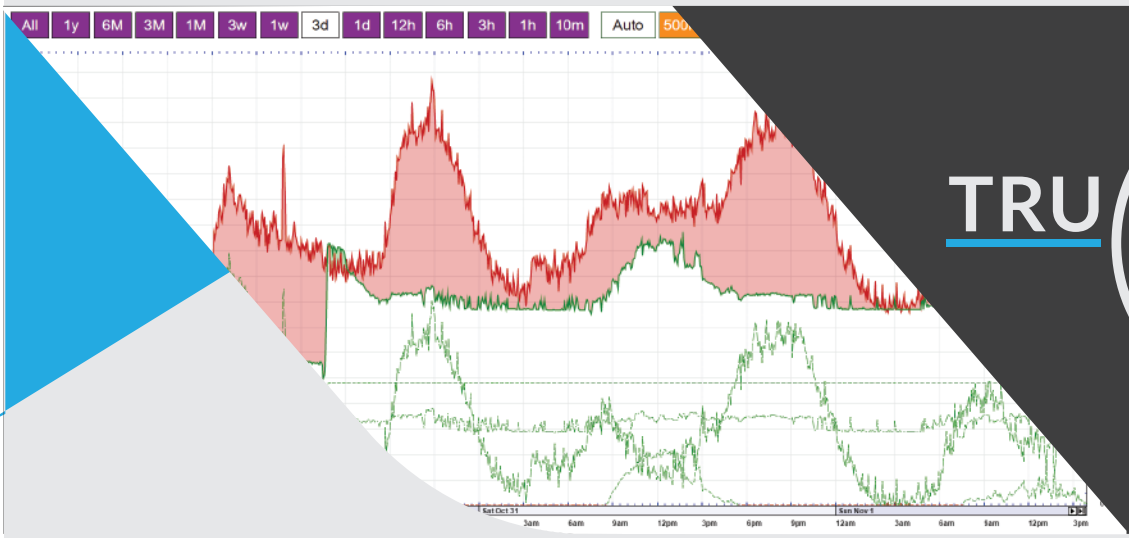
Unlike building management systems, Tru-Use™ hardware is as minimally inavsive as possible, and does not require any interruption of facility operations to install, service or remove. This allows the system to be installed on a temporary or permanent basis, and it leaves behind no lasting modifications to any of the facility's structure or energy systems.

If the facility can provide internet access, or cellular data is available in the space, all data logged by the system is able to be viewed in real-time from within the client login portal.

DSMEA
Low Carbon Engineering

www.dsmea.com

MONITOR EVALUATE VERIFY SUPPORT SAVE



TRU USE™

Technical Information

Unit Specifications

Dimensions (LxWxH): 9.25" x 11.5" x 5"

Weight: 5.4 lbs

Case: Non-Metallic Polycarbonate

Access: Lockable Front Panel

Communication

HomePlug AV/Powerline Carrier

Ethernet (IEEE 802.3 - LAN)

Cellular Network (4G LTE, 3G & 2G Support)

Electrical Monitoring

Each unit can individually measure up to 4 circuits, but units can easily be daisy-chained together to measure as many circuits as is desired. The units require no interruption of facility power to install, and can be installed on a permanent or temporary basis.

Voltage Capacity :
- 4 3-Phase Circuits, 122 - 277 V

Current Capacity (Revenue Grade CT) :
- Rope CT/Split Core Solid, 4,800 A
- Wireless CT, 800 A

Power :
- Any Voltage/Current Combination

Frequency :
- 50 or 60 Hz

Thermal Monitoring

Like the electrical monitoring equipment, thermal monitoring of liquid and/or gas flow can be done for permanent or temporary use. Ultrasonic flow meters provide thermal data for Tru-Use™ systems, so no pipe cutting is required to begin monitoring.

Flow Channels:
- 2 Flow Channels per Unit (Flow, Temp1 and/or Temp2)

Temperature Range :
- -310°F to 1100°F

Pipe Diameter :
- 1/4" to 36'

Flow Velocity :
- 0.03 ft/s to 80 ft/s

DSM Engineering Associates
(631) 360-1208
info@dsmea.com
www.dsmea.com

DSMEA
Low Carbon Engineering