



MAXIMIZE YOUR ENERGY USAGE  
MINIMIZE YOUR COSTS



eCloud

**Reduce energy consumption. Remove uncertainty.**

RAP™ and eCloud™ combine to provide the ultimate solution to your energy and process data collection/management needs. Going beyond the capabilities of typical 'smart grid' type devices, the RAP™ offers a broad array of powerful data collection capabilities, and its economic design allows for widespread deployment throughout an enterprise.

ENERGY AND MAINTENANCE MANAGERS WILL ENJOY THE FOLLOWING KEY BENEFITS:

- Identify high energy consumption processes and areas
- Allocate energy / CO2 across all manufacturing processes
- Benchmark for continuous process improvement
- Quantify energy intensity at the machine level
- Prioritize / verify energy efficiency measures
- Optimize PM schedules and MTBF
- Support ISO 5001

# HOW RAP WORKS

RESOURCE AND PRODUCTION



## SYSTEM CAPABILITIES

### INDOOR/OUTDOOR COMMUNICATION

#### SECURE COMMUNICATION

- Isolated Port Implementation, RAP Language, VPN\*, X509\*

#### SECURE STORAGE

- Indexed by Cust., Oracle, Incremental Backup, XML Data Call, Encoded Output

#### SECURE REPORTING

- Query Based, Real Time, Historical, Multi-Pen/Trace, Browser Independent

#### CANNED/CUSTOMIZED REPORTING

#### ALARMING WITH EMAIL NOTIFICATION

#### DATA GRANULARITY

- Down to 10 Second Increments

### Technical Specifications

Mechanical Design				
Degree of Protection	NEMA 4 - IP56			
Operating Temperature	-25°C ... 55°C			
Permissible Humidity	10% ... 95%			
Air Pressure	70kPa ... 106kPa			
Vibration	5g			
Data Interfaces				
Interface	Ethernet 10base-T/100base-TX			
Connection Method	LAN	WiFi	CDMA	
Transmission Speed	10/100 MBits/s			
Resource Measurements				
Maximum Inputs	10 Power / 30 Sensor			
Sources	Electrical	Hydraulic	Pneumatic	Thermal
Types (Units)	Power (KW)	Pressure (PSI)	Flow(SCFM)	Temperature(*F)
	Power Factor (%)			
	Voltage (Phase to Phase)			
	Current (Phase to Neutral)			
	THD (Phase to Phase)			

## FOR MORE INFORMATION



**11529 Wilmar Boulevard  
P.O. Box 7207 (28241)  
Charlotte, NC 28273  
(704) 588•3670 Fax (704) 588•5435  
[www.the-recon-group.com](http://www.the-recon-group.com)**

**LET US HELP YOU DO MORE WITH LESS BY REDUCING YOUR ENERGY CONSUMPTION.**