UMS Ltd - Elite 440 family of intelligent multifunction panel instruments

The Elite 440 range is a culmination of 2 years work that embraces changes in the market place with more clients requiring intelligent communications as standard. Some key features of the range are:-

- HV, LV, 3wire, 4wire, 1A or 5A applications configurable by the end user.
- Mounting depth at only 65mm without add on pulse input / output modules
- Class 0.5 accuracy as standard and Class 0.2 as an option

The Elite 440 will initially be available in two main variants the Elite 443 and the Elite 448.

The Elite 443 is a 96Din HV/LV panel indicator aimed at replacing multiple analogue instruments in one package. The device is unique as it features a MODBUS port allowing the panel instrument to be read remotely at up to 38.4Kbps. The instrument also features onboard connection diagnostics.

The Elite 448 is a 96DIN HV/LV full featured import/ export energy meter combining all the instantaneous features of the elite 443 with 4 quadrant energy metering, power quality, Min/ Max parameters and load profile memory. Two pulse outputs and two pulse inputs may be added by fitting an optional PIPO module.
Both the Elite 443 and Elite 448 are available with two wide ranging auxiliary supply input options (24V – 60V or 80 – 300VAC or DC).

Features	Models 443	Models 448*
P-N voltage	●	●
Avgerage P-N voltage	●	●
P-P voltage	●	●
Avgerage P-P voltage	●	●
Line current (L1, L2, L3 and Average)	●	●
Active / Reactive Current	●	●
Frequency	●	●
Power factor	●	●
Avgerage Power factor	●	●
Active Power	●	●
Total Active Power	●	●
Reactive Power	●	●
Total Reactive Power	●	●
Apparent Power	●	●
Total Apparent Power	●	●
Active Total Import / Export Energy		●
Reactive Import (Q1+Q2) / Export (Q3+Q4) Energy		●
Reactive (Q1,Q2,Q3,Q4) Energy		
Apparent Import / Export Energy		●
Active / Apparent Forwarded	●	
Reactive Lag / Lead Forwarded	●	
Cumulative MD		●
Phase Angle	●	●
Power On / Off Hours	●	●
Load On / Off Hours	●	●
Feeder Interruptions Count (When Aux is also off)	●	●
Min / Max Values		●
THD Voltage		●
THD Current		●
THD Power		●
RPM with Freq and VUnb and IUnb	●	●
Modbus on RS 485	●	●

(*) Additional modules (Pulse input/output or Analogue output) can be available with Elite 448