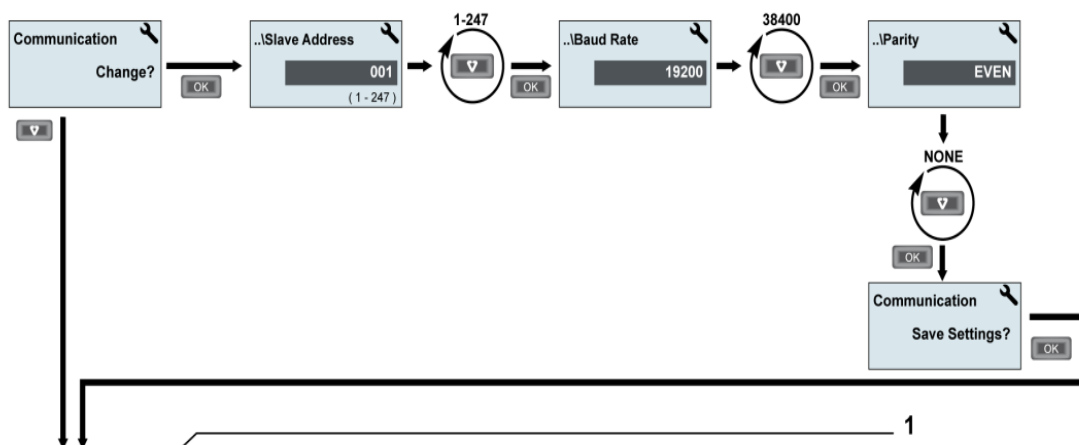# iEM3100 series / iEM3200 series
Energy Meters
User Manual

04/2012

Meter Data (iEM3150 / iEM3155 / iEM3250 / iEM3255)

Register Address	Action (R/W/WC)	Size	Type	Units	Description
Current					
3000	R	2	Float32	A	I1: phase 1 current
3002	R	2	Float32	A	I2: phase 2 current
3004	R	2	Float32	A	I3: phase 3 current
3010	R	2	Float32	A	Current Avg
Voltage					
3020	R	2	Float32	V	Voltage L1–L2
3022	R	2	Float32	V	Voltage L2–L3
3024	R	2	Float32	V	Voltage L3–L1
3026	R	2	Float32	V	Voltage L–L Avg
3028	R	2	Float32	V	Voltage L1–N
3030	R	2	Float32	V	Voltage L2–N
3032	R	2	Float32	V	Voltage L3–N
3036	R	2	Float32	V	Voltage L–N Avg
Power					
3054	R	2	Float32	kW	Active Power Phase 1
3056	R	2	Float32	kW	Active Power Phase 2
3058	R	2	Float32	kW	Active Power Phase 3
3060	R	2	Float32	kW	Total Active Power
3068	R	2	Float32	kVAR	Total Reactive Power Not applicable for iEM3150 / iEM3250
3076	R	2	Float32	kVA	Total Apparent Power Not applicable for iEM3150 / iEM3250
Power Factor					
3084	R	2	Float32	–	Total Power Factor: -2 < PF < -1 = Quad 2, active power negative, capacitive -1 < PF < 0 = Quad 3, active power negative, inductive 0 < PF < 1 = Quad 1, active power positive, inductive 1 < PF < 2 = Quad 4, active power positive, capacitive
Frequency					
3110	R	2	Float32	Hz	Frequency
Total Energy (cannot be reset)					
3204	R	4	Int64	Wh	Total Active Energy Import
3208	R	4	Int64	Wh	Total Active Energy Export Not applicable for iEM3150 / iEM3250
3220	R	4	Int64	VARh	Total Reactive Energy Import Not applicable for iEM3150 / iEM3250
3224	R	4	Int64	VARh	Total Reactive Energy Export Not applicable for iEM3150 / iEM3250
Phase Energy					
3518	R	4	Int64	Wh	Active Energy Import Phase 1
3522	R	4	Int64	Wh	Active Energy Import Phase 2
3526	R	4	Int64	Wh	Active Energy Import Phase 3