W28 Series

WIFI

Power Quality Analyzer

affra
www.affratech.com

Application

Network management
  Real-time measurement of electrical parameters
  Track power quality condition
  Measure / Calculate residual current
  Computation of Min/Max parameters for critical conditions
  Status observation of installed devices
  Monitor control functions
  Log parameters profile
  User friendly WIFI connectivity
Cost management
  Energy metering of unit/sub system
  Control demand to avoid extra billing cost
  Alarm Command to control / monitor system disturbances
  Cost effective communication via WIFI

W28 series

	W2810	W2811	W2812	W2820	W2821	W2830	W2835	W2840	W2845
Measurement									
Basic [1]	•	•	•	•	•	•	•	•	•
Auxiliary Neutral Current	•	•	-	•	•	•	•	•	•
6 Tariff Meter	•	•	•	•	•	•	•	•	•
Demand [2]	•	•	•	•	•	•	•	•	•
Alarm	32	32	32	32	32	33	33	33	33
Min/Max	•	•	•	•	•	•	•	•	•
Quality Measurement									
Displacement Power Factor	•	•	•	•	•	•	•	•	•
Voltage(Phase, Line) / Current THD	•	•	•	•	•	•	•	•	•
Current TDD	•	•	•	•	•	•	•	•	•
Voltage(Phase, Line) Harmonic	-	-	-	2-15th	2-15th	2-31st	2-31st	2-40th	2-40th
Current(Phase,Neutral/Residual)Harmonic	-	-	-	2-15th	2-15th	2-31st	2-31st	2-40th	2-40th
Voltage / Current Unbalance	•	•	•	•	•	•	•	•	•
KF	-	-	-	-	-	•	•	•	•
Voltage CF	-	-	-	-	-	•	•	•	•
Current CF	-	-	-	-	-	•	•	•	•
Recorder									
Data Logging	18000	18000	18000	18000	18000	18000	18000	18000	18000
Event Recorder	128	128	128	128	128	256	256	256	256
Communication									
RS485-Modbus RTU	•	•	•	•	•	•	•	•	•
WIFI-Modbus RTU	•	-	-	•	-	•	•	•	•
WIFI-DNP3.0	-	-	-	-	-	-	•	-	•
WIFI-Software	•	-	-	•	-	•	•	•	•
Digital IO									
Output [3]	1	1	1	1	1	1	1	1	1
Input [3]	1	1	1	1	1	1	1	1	1
Supported External Module									
wa1, 2 input [3] – 2 relay output	•	•	•	•	•	•	•	•	•
wa2, 2 input [3] – 4 relay output	•	•	•	•	•	•	•	•	•
wa3, Ethernet	•	•	•	•	•	•	•	•	•
wa4, Ethernet–2 input[3] –2 relay output	•	•	•	•	•	•	•	•	•
Accuracy									
Kwh	1	1	1	0.5	0.5	0.5	0.5	0.2	0.2
Kvarh	2	2	2	1	1	1	1	0.5	0.5
Supply									
AC: 80 – 265 ±10%, DC: 100-300 ±10%	•	•	•	•	•	•	•	-	-
AC: 80 – 480 ±10%, DC: 100-600 ±10%	-	-	-	-	-	-	-	•	•

1: Phase Voltage, Line Voltage, Phase Current, Calculated Neutral Current, Power Factor, Active Power, Reactive Power, Apparent Power, Frequency, Temperature
2: Fixed, Sliding, Thermal mode, 3 phase current, import / export active power, inductive/capacitive reactive power, apparent power
3: Opto Isolated

Secondary CT ratio: 5 / 1 A
Dimensions: (WHD) 103 * 103 * 70 mm, Panel Cut-Out: 92 * 92 mm
Weight: 400 – 410 gr
Operating Temperature: -20 to +70 º C
Software: Windows, Android
Standard: IEC 62053-22/23, IEC 62052-11, IEC 61010-11, IEC 60255-27, IEC 62054-21