



ENGLISH

Datasheet

Article No: 136-5377

Digital Multi-Function Meter, 96x96, 3Ph, V A F

Article No: 136-5378

Digital Multi-Function Meter, 96x96, 3Ph, V A F, with Limit Relay/Switch option

RS Pro





RS Pro

- True RMS Measurement
- Onsite Programmable
- Limit Switch Output
- Low Back Depth
- 3 Line Ultra Bright LED Display
- Run Hour / On Hour indication

RS Pro measures important electrical parameters in 3 phase 4 Wire, 3 phase 3 Wire and 1 phase Network & replaces the multiple analog panel meters. It measures electrical parameters like AC Voltage, AC Current, Frequency & many more. The instrument also has an optional limit switch.

Applications:

- Distribution Panels
- · Electrical load monitoring
- Genset, Test Benches and Laboratories
- Motor Control Panels

Product Features

True RMS measurement

Measures distorted waveform up to 15th Harmonic.

Onsite programmable

Onsite Programable System Configuration 3PH4W/3PH3W and Single phase. Onsite Programable CT ratios and PT ratios

Limit Switch (Optional)

Potential free, very fast acting relay contact configurable as limit (alarm) switch. The instrument will trip the relay if the programmed parameter exceeds the programmed Trip Limits.

3 line 3 digits Ultra Bright LED display

Simultaneous display of 3 different parameters.

Run Hour, ON Hour, Number of Interruptions

Run Hour records the number of hours load is connected. ON Hour is the period for which the auxiliary supply is ON. Number of Interruptions indicates the number of times the Auxiliary Supply was interrupted.



RPM Measurement

The instrument display Rotation per minutes for generator applications. Number of poles can be set on site depending upon application requirement.

Storage of Parameters possible

The instrument stores minimum and maximum values for System Voltage, System Current, Run Hour, ON Hour & number of Interrupts. Every 60 sec stored values are updated.

Low Back Depth

The instrument has very low back depth (behind the panel) of less than 55 mm

Parameter Screen recall

In case of power failure, the instrument memorizes the last displayed screen

Onsite selection of Auto scroll / Fixed Screen

User can set the display in auto scrolling mode or fixed screen mode locally via front panel keys by entering into Programming mode.

Enclosure Protection for dust and water

Conforms to IP 54 (front face) as per IEC60529

Compliance to International Safety standards

Compliance to International Safety standard IEC 61010-1-2010

EMC Compatibility

Compliance to International standard IEC 61326

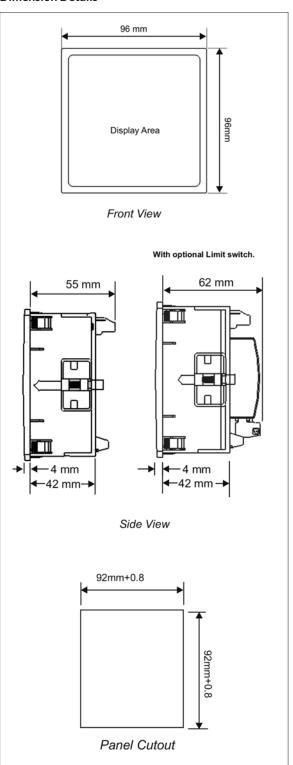
Issue 1.0



Technical Specifications

100\/ 500\/ (57.7\/ N 200\/ N)			
100 VL-L - 500 VL-L (57.7 VL-N - 290VL-N)			
100 VLL to 799 kVLL programmable on site.			
100 VLL to 500 VLL programmable on site.			
120% of Nominal value			
1A / 5A AC RMS			
From 1A up to 799 kA programmable on site			
1A / 5A Programmable at site.			
120% of Nominal value			
40 V - 300V AC-DC (± 5 %)			
or			
20 V - 40V AC / 20 V - 60V DC			
45 to 65 Hz range			
< 0.3 VA approx. per phase			
< 0.2 VA approx. per phase			
< 4 VA approx			
5 120% of Nominal value			
10 120% of Nominal value			
45 - 65 Hz			
racy:			
23°C +/- 2°C			
50/60 Hz ±2%			
10 100% of Nominal value			
20 100% of Nominal value			
Nominal Value ±1%			
Nominal Value ±1%			
±1.0% of Nominal Value			
±1.0% of Nominal Value			
±0.5% of Mid Frequency			

Dimension Details



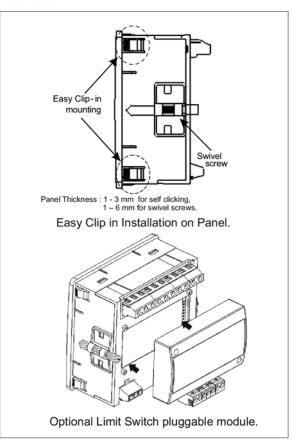
Issue 1.0 PAGE 2



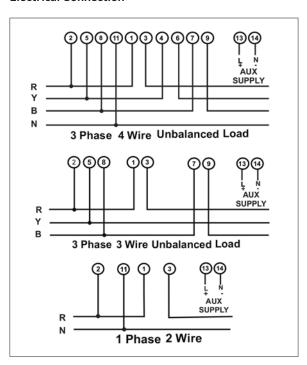
Technical Specifications

Overload Withstand:				
Voltage	2 x Nominal value for 1 second, repeated 10			
	times at 10 second intervals			
Current	20x Nominal value for 1 second, repeated 5			
	times at 5 min intervals			
Influence of Variations:				
Temperature coefficient	0.05%/°C			
Display update rate:				
Response time to step input	1 sec approx.			
Applicable Standards:				
EMC	IEC 61326			
Immunity	IEC 61000-4-3. 10V/m min - Level 3			
	industrial			
	Low level			
Safety	IEC 61010-1-2010, Permanently connected			
	use			
IP for water & dust	IEC60529			
Pollution degree	2			
Installation category	III			
High Voltage Test	3.3 kV AC, 50Hz for 1 minute between all			
	Electrical circuits			
Environmental				
Operating temperature	-10 to +55°C			
Storage temperature	-20 to +65°C			
Relative humidity	0 90% non condensing			
Warm up time	Minimum 3 minute			
Shock	15g in 3 planes			
Vibration 1	0 150 10 Hz, 0.15mm amplitude			
Interfaces				
Relay(Optional)	240 VAC ,5 A			
	Configured as Limit Switch			

Installation



Electrical Connection



Issue 1.0 PAGE 3



Display Parameter:

Sr No	Parameter	3 Phase 4 Wire	3 Phase 3 Wire	Single Phase 2W
1.	System Voltage	✓	✓	×
2.	Voltage R-N	✓	×	/
3.	Voltage Y-N	✓	×	×
4.	Voltage B-N	✓	×	×
5.	Voltage R-Y	✓	✓	×
6.	Voltage Y-B	✓	✓	×
7.	Voltage B-R	✓	✓	×
8.	System Current	✓	✓	×
9.	Current R	✓	✓	√
10.	Current Y	✓	✓	×
11.	Current B	✓	✓	×
12.	Frequency	✓	✓	/
13.	RPM	✓	✓	✓
14.	Max (System Voltage / System Current)	✓	✓	✓
15.	Min (System Voltage / System Current)	1	✓	1
16.	Run Hour	✓	✓	/
17.	On Hour	✓	✓	✓
18.	Number of Auxiliary Interruptions	✓	✓	/

^{✓-} Available X - Not available

Ordering Information:

Article No: 136-5377

RS Pro Volts, Amps and Frequency, 96X96mm 3 Phase 3/4W programmable onsite,

AC VAF meter, 14mm display,

Input. 100-500VLL, Input. 1 or 5 Amps AC,

Supply Voltage. 40-300V AC/DC auxiliary (Programmable CT/PT primary and secondary values)

Article No: 136-5378

RS Pro Volts, Amps and Frequency, 96X96mm 3 Phase 3/4W programmable onsite,

AC VAF meter, 14mm display,

Input. 100-500VLL, Input. 1 or 5 Amps AC,

Supply Voltage. 40-300V AC/DC auxiliary (Programmable CT/PT primary and secondary values with Limit Switch/Relay O/P)

Issue 1.0 PAGE 4