# AC Three-phase Ammeter User Manual

This manual is applied to the following models: LNF36

# JIANGSU SFERE ELECTRIC CO., LTD.

### 1. Product description

#### 1.1 Overview

LNF series digital AC ammeter is applied for measuring three-phase AC current in low voltage power distribution system. The transformation ratio can be programmed. It also can be equipped with communication supporting Modbus-RTU protocol.

#### 1.2 Model selection

Function		LNF36	
Appearance	Display mode	LCD	
	Installation size (mm)	96×96	
Real-time	Current frequency	-	
measurement	Current, frequency		

Note: "
" indicates that this function is available.

## 2. Technical parameters

#### 2.1 Technical specification

Working environment conditions					
Wokring temperature	-10°C 55°C				
Storage temperature	-25°C 70°C				
Relative humidity	≤95%RH, no condensation				
Working altitude	≤2500m				
Anti-pollution level	Non-corrosive gas				
Protection degree	Front case IP54, rear case IP20				
Insulation	Between signal, power supply, output terminal to case resistance >100M $\Omega$				
Withstand voltage	Input and power supply $\ge 2kV$ , input and output $\ge 2kV$ , power supply and output $\ge 2kV$				
Display					
Display method	LCD				

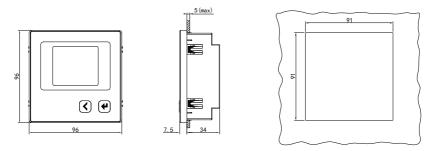
Working power supply							
Rated range	AC/DC (80~270) V						
Power consumption	≤3VA						
Withstand voltage	≥2kV						
Current input							
Range	3×5A/1A						
Resolution	1 mA						
Impedance	≤20mΩ/ per phase						
Power consumption	≤0.2 VA/ per phase						
	Continuous:1.2Vn						
Overload	Instantaneous: 10In/5s						
Frequency	45 Hz-65 Hz						
Communication interface							
Physical interface	RS-485						
Communication speed	Up to 9.6 kbps						
Communication protocol	Modbus-RTU						
Isolation voltage	2000 VAC (1 min)						
Electromagnetic compatibilit	ÿ						
Electrostatic discharge immunity		IEC 61000-4-2-III					
Radiated, radio-frequency, electromagnetic field immunity		IEC 61000-4-3-III					
Electrical fast transient/burst immunity		IEC 61000-4-4-IV					
Impact (surge) immunity		IEC 61000-4-5-IV					
Immunity to conducted disturbances, induced by radio-frequency fields		IEC 61000-4-6-III					
Power frequency magnetic field immunity		IEC 61000-4-8-III					
Voltage dips, short interruptions and voltage variations immunity		IEC 61000-4-11-III					

#### 2.2 Measurement parameter

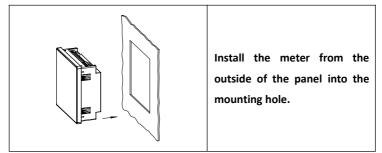
Measurement variable	Accuracy	Instant	Demand	Sum	Unit
11/12/13	0.2	•	•	_	[A,kA]
F	±0.01Hz	•	_	_	[Hz]

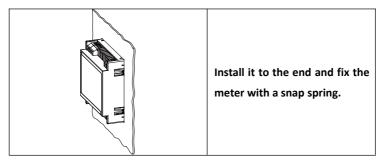
# 3. Installation

#### 3.1 Dimension



#### 3.2 Installation





#### 3.3 Wiring

