EBCHQ Digital Display Frequency Meter Operation Manual

Chapter 1.General Introduction

Digital display frequency meters are a sort of economic digital instruments, which are mainly used in the real-time measurement and indication on AC or DC frequency of electric wiring. It can assort with all kinds of electrical quantity and non electrical quantity transmitter with linearity analog signal output and indicate the electrical quantity or non electrical quantity value in the primary circuit. With features of high precision, good stability, direct reading, strong anti-interference ability, it can be used extensively in all voltage classes of substation of city and countryside, power station, transformation and distribution room of public institution/enterprise units, and many fields of intelligent building/subdistrict, metallurgy, petrochemical, airport, railway, port, hospital, school, municipal and etc. It is an idea upgraded product of original dial instrument.

Chapter 2. Type and Designation

Function & shape / REF Number	Measure and Display Frequency	Size Unit: mm
79620	●	72X72
79624	●	96X48
79628	●	96X96

Chapter 3. Technical Parameters

3.1Measuring range： 30.0～99.9Hz
3.2accuracy rating： ±0.5%FS±2 digits
3.3Sampling rate: about 3 times/s
3.4 Input Signal Type: AC Voltage or single-polarity pulse
3.5 Display Mode: display 3 1/2 bits LED nixietube
3.6 Resolution: last figure one digit
3.7 Auxiliary power supply: AC110V or AC220V
3.8 Auxiliary supply consumption： <3VA
3.9 Overflow indication: The top digit displays 1 or -1 and other digits hiding
3.10 Operational environment: places free of gas corruption with temperature of -10～50℃,and relative humidity≤85%RH

Chapter 4. Setting and Wiring

4.1 Hole cutout dimension

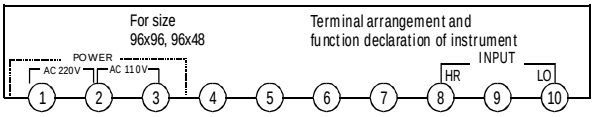
Unit：mm

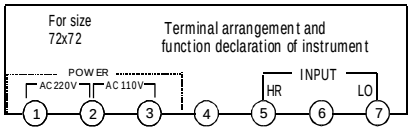
Instrument shape	Panel dimension		Case dimension			Hole cutout dimension	
	W	H	W	H	D	W	H
96X48	96	48	90	44	100	92	45
72X72	72	72	67	67	80	68	68
96X96	96	96	91	91	80	92	92

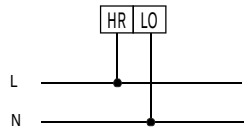
4.2 Method of installation

Choose the corresponding hole cutout dimension according to the instrument dimension from the table above, open a hole in the installation screen, embed instruments into the hole, put the two clamping pieces into the clamping rectangular and push and tighten it by hand.

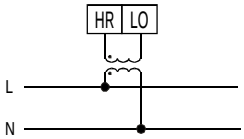
4.3 Description of Wiring and terminal







Input directly when U AC≤ 500V



Input through the instrument transformer when U AC> 500V

Chapter 6. Usage and Attention

5.1 Please confirm if the auxiliary power supply, input signal and wiring is correct before applying the power.
5.2 The instrument must be preheated for 15 minutes to guarantee the precision of measurement.
5.3 The instrument should not be rapped, knocked and vibrated excessively and its using environment should meet the technical requirements

Chapter 7. Packing and Storage

The instrument and accessories with packing should keep storage conditions cool and dry and free of wet and gas corruption with temperature not more than 70℃ and not less than -40℃, and relative humidity≤85%.