

GF12R

UNIVERSAL SCANNING HEAD FOR ENERGY METER

The GF12R universal scanning head name optical probe, it is suitable for scanning the marks of mechanical rotating disc meters or the detection of light emitting diodes (LED's) of electronic meters, and also as a manual switch. Three mode of operation is selectable via a switch. It has the characteristics of high-precision acquisition, high-frequency acquisition, wide range acquisition, and high sensitivity, and is suitable for on-site calibration instruments and calibration devices for electric energy meters. This product is compatible with devices adhering to the European standard IEC 62056-21 (IEC 1107) and IEC 62053-31, ANSI C12.10.

Functions & Features

1. Adopting a adsorption based design, suitable for various types of electric energy meters with different casings; Multiple connection methods, suitable for various indoor and outdoor occasions, such as electric meter inspection devices and on-site calibration instruments;
2. Integrating three working modes: electronic and mechanical meters, as well as manual switches, compatible with electronic meters and mechanical pulse acquisition, with one click switching;
3. The "crosshair" is used for aiming, making it easy to adjust the position of the light and achieving high accuracy;
4. Three color LED status indicator, mechanical watch red light on, electronic watch green light on, manual switch orange light on, strong visibility;
5. The photoelectric head has high sensitivity and strong adaptability, and can automatically adapt to changes in light intensity on site;
6. The sampling speed can reach up to 3kHz, fully meeting the sampling requirements of various electric meters;



Parameters

Electrical parameters	
Induction wavelength	400-1000nm
Pulse width	Not less than 0.2 milliseconds
Working voltage	3.3-12V, 3.3V, 5V, 12V DC
Working current	$\leq 13.5\text{mA}$
Sampling distance	0-45mm, affected by environmental light sources
Sucker	Yes
LED lamp	Red, green, orange
Key	1pc
Output signal (high)	$\geq 3.0\text{V}$
Output signal (low)	$\leq 0.3\text{V}$
Shell material	ABS
Shell color	Blue
Size	30mmX30mmX18mm big, 10mmX10mmX18mm small diameter
Weight	85g
Signal line length	1m, 2m, 3m, customized
Power consumption	$\leq 0.25\text{W}$
Protection level	IP54
Working temperature	-40°C to 85°C
Working humidity	5%-85%RHD