

Operation instruction QB316 instead of UP316

QB series—QB316(UP316) (Three and a half) Stable digital panel meters

First: Product introduction:

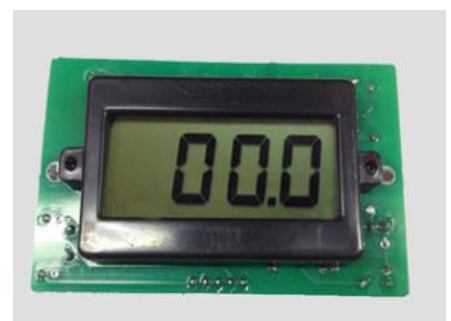
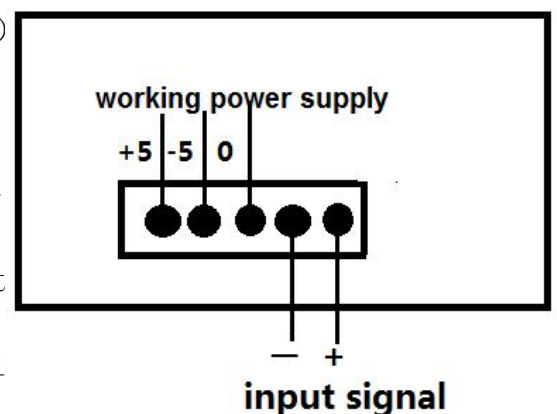
QB316 (LCD) digital panel meters . It is one of our company' s QB series. Of digital panel meters

It used ICL7106Z as A/D exchange circuit. It have advantages of good linearity, high input impedance, working stabilization and so on. It is a kind of DC voltage ammeter with good performance and highprecision. It is easy to assemble. It can be used to measure voltage, ammeter , temperature, humidity acidity pressure , displacement and so on. It is a good replacement product instead of pointer table.

Second: Main Technology Data

- ◆ Working voltage : $DC9V \pm 10\%$ (or $\pm 5V$ power supply)
- ◆ Electric current lower: 10mA
- ◆ Measure distance showing : Full measure showing (—1999~1999) reading number , input voltage $\pm 199.9mv$ (It called 0.2v or 200mV). It also can be made to be a full measuring input voltage which depends on customer require likes input voltage are 2V、20V、200V and so on
- ◆ Display precision: 0.1% ± 1 character
- ◆ Temperature excursion : 100PPM/ $^{\circ}C$

Instrument wiring diagram



- ◆ Sample rate : 3 times/every second
- ◆ Input impedance : 0.2V、2V time, >1000M Ω 、20V、200V time, >1M Ω
- ◆ Work environment : 0—50℃
- ◆ Over range display: show “1” or “—1”
- ◆ Under voltage display : When working voltage is lower than 7.5, it shows LOBAT
- ◆ Outside size : circuit board size: 76×46mm
- ◆ Opening hole size: 55×34mm. Assembling holes distance: 69mm. Hole diameter:3.5mm
- ◆ Weight : 35grams
- ◆ Need the decimal point: The decimal point had connected well when it leaved factory
- ◆ Usage: This product had been verified well when it leave factory. The full value can be recalibrated by a potentiometer on the meter head when you use it

Third: Range Variation Parameter Table

	Input signal	range ability	Ra	Rb	Rc
Volmeter	2V	0~±1.999	short circuit		10K
	20V	0~±19.99	1M	100K	10K
	200V	0~±199.9	1M	10K	10K
	500V	0~±500	1M	10K	10K
	200mV	0~±199.9	short circuit		200 Ω
Amperemeter	2A	0~±1.999	short circuit		200 Ω
	5A	0~±5.00	short circuit	0.1 Ω (2w)	3.6K
	10A	0~±10.0	short circuit	0.3 Ω (2w)	200 Ω
	20A	0~±19.99	short circuit		200 Ω
	30A	0~±30.0	short circuit		2K
	50A	0~±50.0	short circuit		680 Ω
	100A	0~±100.0	short circuit		200 Ω
	200A	0~±199.9	short circuit		200 Ω
	500A	0~±5.00	short circuit		680 Ω

Mark:5A~500A have to external with corresponding changes in the 76mv shunt