

AMC16-DETT Manual

BRIEF INTRODUCTION

Base station dedicated DC energy meter AMC16-DETT is specially designed for base stations where have sharing requirements, and switch power supply is without the function of sub-user metering. The meter could measure 6 circuits DC energy, and supply working current to the matched hall sensors. Meanwhile, it can realize zero drift calibration by upper computer software. have the functions of telemetering, teleindication, teleadjusting, metering at real time, energy quality abnormal alarm, data storage and processing, data interaction. This meter can measure DC power consumption of **three operators**, providing detail datas for base station.

MODEL

NAME	MODEL	INSTALLATION
Base station DC energy meter	AMC16-DETT	35mm din rail

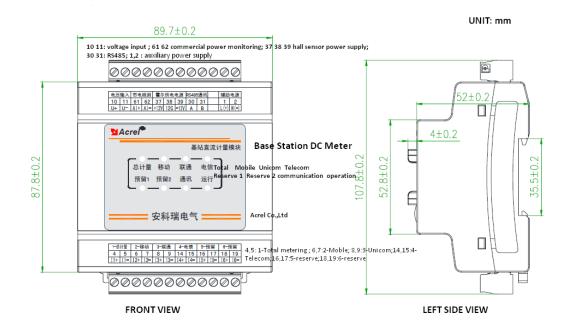
SPECIFICATIONS

Technical parameter		Index	
input	DC rated voltage	1 channel: -48VDC	
		6 channels hall sensors: total 200A/5V, China Telecom, China	
	DC current	Mobile, China Unicom and the 1^{st} channel reserve 50A/5V, 2^{nd}	
		channel reserve 100A/5V.	
	Commercial power	1 channel: 0-5VDC	
	monitoring		
	Overload capacity	Voltage:1.2times continued,2 times continued 1s;	
		Current: 1.2 times continued,10 times continued 1s.	
Accuracy (supe	rposition hall sensors)	1%ln \leq l \leq 10%ln error \pm 2.5%; l>10%ln error \pm 2%	
Measurement resolution		Voltage output accuracy 0.01V; current output accuracy 0.01A;	
Ivieasurei	nent resolution	power output accuracy 0.01kw; energy output accuracy 0.01kwh	
		Monitor device system time, total voltage, output total current,	
	Basic function	power, energy, each channel voltage, current, power, energy; LED	
		indicator display;485 communication	
		Start current: under rated voltage, when the load current value of	
		the meter doesn't exceed 1% of the max. current, the meter	
functions		starts.	
	Metering function	Shunt running current: when there is no current in the current	
		circuit of the meter, and 85%-125% of the rated voltage is applied	
		on the voltage circuit, the calculator shall not have more than	
		one digital change	
	Alarm function	DC voltage output low alarm, DC voltage output high alarm, one	
		power down alarm, module voltage loss alarm, metering branch	
		error alarm, internal program error alarm, clock error alarm,	
		memory failure alarm, AC input power failure alarm	



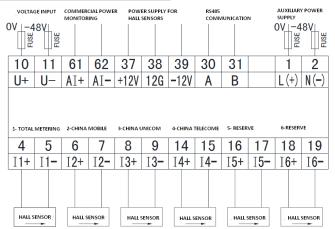
		Timing function	support broadcast timing, could remote timing to the meter	
			through RS485 communication.	
			Single channel RS485, baudrate 9600bps, can be set to 1200BPS,	
		Communication	2400bps, 4800bps.	
			Communication protocol: standard or custmized	
		Hall sensor power	Power supply output:+12V/100Ma, -12V/50mA	
		supply		
		Clock accuracy	≤0.5S/d(23℃), ≤1S/d(-20℃-60℃),	
Auxiliary po	wer	Voltage range	-40V~-60VDC	
supply		Power consumption	Whole device≤2W(no hall power supply output)	
Storage		Storago	It has the storage function of historical power data and historical	
		storage	alarm information, and the memory is 2MB	
Insulation resistance		ion resistance	≥40MΩ	
environment Humidity		Temperature	Working : -20 $^\circ\!\mathrm{C}$ +60 $^\circ\!\mathrm{C}$; storage:-40 $^\circ\!\mathrm{C}$ +70 $^\circ\!\mathrm{C}$	
		Humidity	\leqslant 98% no condensation, no corrosive gas place	
		Altitude	≤4000m	
Protection level		ection level	IP20	
Material flame retardent		flame untered and	Terminal glow wire temperature 960 $^\circ\!\mathrm{C}\pm10^\circ\!\mathrm{C}$,shell glow wire	
		name retardent	temperature 6500 $^\circ \mathrm{C} \pm$ 15 $^\circ \mathrm{C}$	
installation		stallation	Standard 35mm din rail	
		age input	Peak value 5kA	
		erential mode)	Peak value SKA	
		liary power supply	Dealayahya Eka	
		erential mode)	Peak value 5kA	

DIMENSION

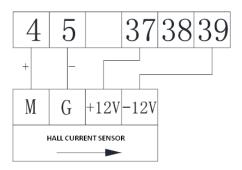




INSTALLATION AND WIRINGS



Note: arrow direction should be the same with current direction marked on the sensor .



HALL SENSORS WITH ISOLATION FUNCTION WIRING

- 1. input voltage should not be higher than 120% of product's rated input voltage, must install 1A fuse at the voltage input terminal.
- 2. Current input should use external diverter or hall sensor.
- 3. To ensure the accuracy, the DC meter should used together with Acrel hall sensors, the wiring length between sensors to meters should <3m.
- 4. Advise use three core shielded wires as communication connection wires. Each core >0.5mm² connect A,B, Connect shielding layer to earth, and keep communication line away from strong electric cable or other strong electric field environment during wiring
- 5. The hall sensor opening locking screw must be tightened to ensure the closed-loop tightness of the sensor

RECOMMEND HALL SENSOR



AHKC-EKA (50A/5V) Ф 20mm



Φ**40mm**

AHKC-K (200A/5V)



64*16mm