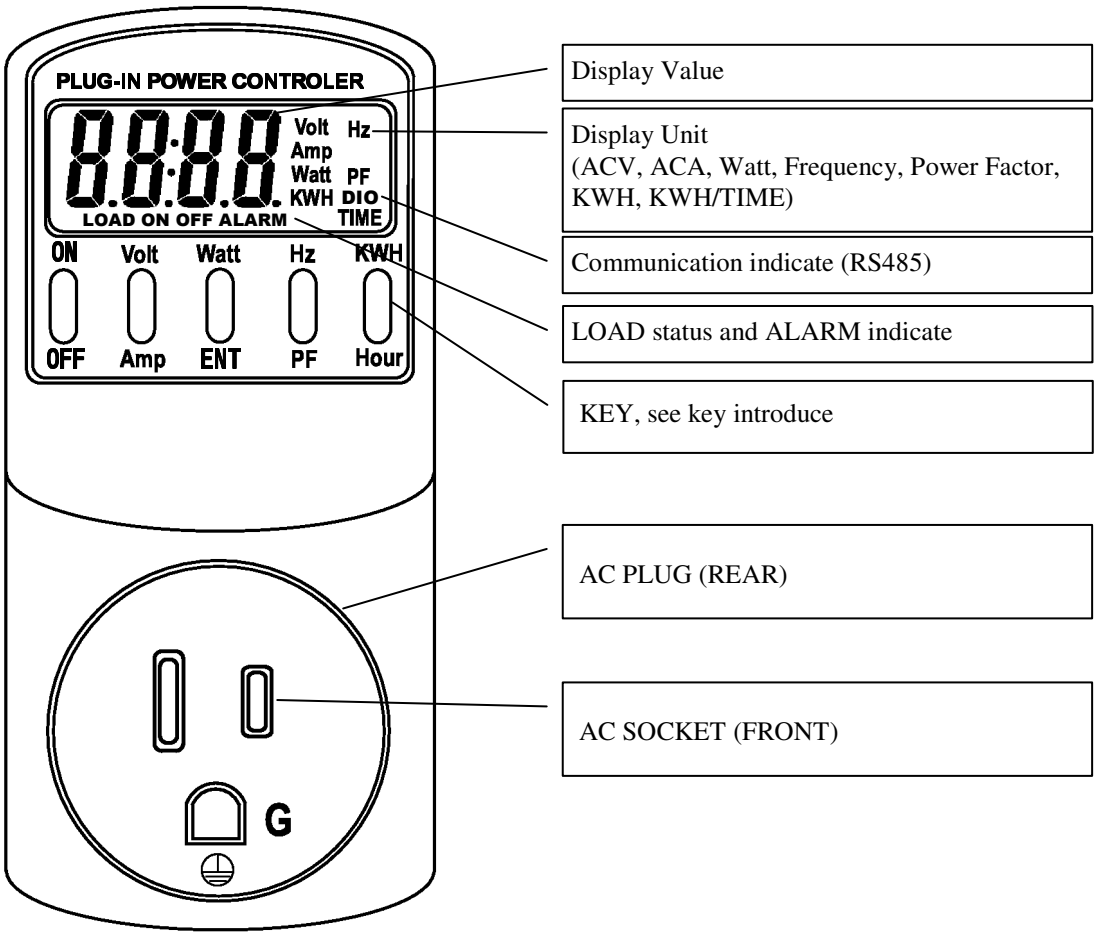
PLUG-IN POWER CONTROLLER AXE-2

■ Features

◎ Accuracy 0.1% F.S.(Watt/KWH/Frequency)
◎ Measuring and display ACV/ACA/Watt/Frequency/Power Factor/KWH/KWH-Time
◎ ACV/ACA/Watt for true RMS
◎ ACA/Watt/KWH/KWH-TIME auto-range function
◎ Over current (>15A) and over temperature(>65°C) auto-protector function
◎ Impulse test meet requirement IEC60950-1 6KV/3KA (1.2*50us) combination wave test
◎ One load control relay function
◎ Digital RS-485 interface function (Optional)

■ Name Of Parts



Key Introduce	Operation Manual
ON/OFF key	1.LOAD ON/OFF switch, Display will show LOAD status 2.If alarm active, press key will reset alarm(if still over, ALARM can not reset)
Volt/Amp key	1. In normal display, change display ACV/ACA 2. Into parameter setting page, left shift setting digital(◀)
Watt/ENT key	1. In normal display, change display Watt/ENT(press 3sec) 2. Into parameter setting page, store parameter and into next setting page
Hz/PF key	1. In normal display, change display Hz/PF 2. Into parameter setting page, increase setting digital (▲)
KWH/Hour key	1. In normal display, change display (KWH/Hour) 2. Into parameter setting page, decrease setting digital (▼)
No key press	In setting page, no key press in about 2 minutes, will return normal display

Step	Parameter Mark Description	Parameter Mark	Operation Manual
1	Normal display	1234	Press Watt/ENT key 3 sec, into P.COD setting page
2	P.COD(Pass Code) Default = 0	P.Cod 0000	1.Use Volt/Amp key(◀) & Hz/PF key(▲) & KWH/ Hour key(▼) enter 4 digital pass code 2.Press Watt/ENT key, Into AL-S setting page if pass code is right, otherwise return to normal display

3	AL-S(Alarm Select) Default = V	AL-S 0000	1.Use Hz/PF key (▲) & KWH/Hour key (▼) enter ALARM Select (V/A/W/PF/KWH/KWH-TIME)(1) 2.Press Watt/ENT key enter AL setting page
4	AL(Alarm Value) Default = 250.0	AL 0000	1.Use Volt/Amp key (◀) & Hz/PF key (▲) & KWH/Hour key (▼) enter Alarm value (0~9999)(1) 2.Press Watt/ENT key enter KWH/KWH-TIME reset setting page
5	RST(KWH/KWH-TIME Reset) Default = NO	rSt no	1.Use Hz/PF key (▲) & KWH/Hour(▼) key chose KWH/KWH-TIME Reset (NO or YES) 2.Press Watt/ENT key enter Communication Address setting page
6	ADDR(Communication Address) Default = 0	Addr 0000	1.Use Volt/Amp key (◀) & Hz/PF key (▲) & KWH/Hour key (▼) enter Communication Address (0~255) 2.Press Watt/ENT key enter Communication Baud Rate setting page
7	BAUD(Communication Baud Rate) Default = 19K2	bAUd 19.2E	1.Use Hz/PF key (▲) & KWH/Hour(▼) key chose Communication Baud Rate(19.2K, 9600, 4800,2400) 2.Press Watt/ENT key enter setting page
8	PARI(Communication Parity Check) Default = n.8.2.	PAr1 n.8.2.	1.Use Hz/PF key (▲) & KWH/Hour(▼) key chose Communication Parity Check (n.8.2., n.8.1., even, odd) 2.Press Watt/ENT key enter setting page
9	CODE(Pass Code) Default = 0	CodE 0000	1.Use Volt/Amp key (◀) & Hz/PF key (▲) & KWH/Hour key (▼) enter Pass Code (0~9999) 2.Press Watt/ENT key enter setting page
10	LOCK(Panel Lock) Default = NO	LoCE no	1.Use Hz/PF key (▲) & KWH/Hour(▼) key chose Panel Lock (NO or YES) 2.Press Watt/ENT key return to normal display Note: When panel is lock, parameter can not be modify

AXE-2 Modbus RTU Mode Protocol Address Map

Data format 16Bit/32Bit, unsigned 0000~FFFF(0~65535), 00000000~FFFFFFFF(0~429496729)

Address	Name	Description	Accept
0000	ID	ID code, AXE-2 is 0002	R
0001	STATUS	Status: range 0000~000F (BIT0:Temp over, BIT1:Current over, BIT2:Volatge over, BIT3: Alarm)(1)	R
0002	LOAD	LOAD Status: range 0000~0001 (0:LOAD OFF,1:LOAD ON)(1)	R/W
0003	AL-S	ALARM SELECT: range 0000~0005 (0:V, 1:A, 2:W, 3:PF, 4:KWH, 5:KWH-TIME)(2)	R/W
0004	AL	ALARM VALUE: range 0000~270F (0~9999)(2)	R/W
0005	RST	KWH/KWH-TIME reset: range 0000~0001 (0:NO,1:YES)	R/W
0006	ADDR	ADDRESS: range 0000~00FF (0~255)	R/W
0007	BAUD	BAUD RATE: range 0000~0003 (0:19K2, 1:9600, 2:4800, 3:2400)	R/W
0008	PARI	PARITY: range 0000~0003 (0:N.8.2., 1:N.8.1., 2:EVEN,3:ODD)	R/W
0009	CODE	PASS CODE: range 0000~270F (0~9999)	R/W
000A	LOCK	PANEL LOCK: range 0000~0001 (0:NO,1:YES)	R/W
000B	DISP-V	ACV display value: range 0320~0A28 (80.0~260.0)(3)	R
000C	DISP-I	ACA display value: range 0000~3A98 (0.000~15.000)(3)	R
000D	DISP-W	Watt display value: range 0000~9858 (0~3900.0)(3)	R
000E	DISP-PF	Power factor: range 01F4~03E8 (0.500~1.000)(3)	R
000F	DISP-HZ	Line Frequency: range 01C2~028A(45.0~65.0)(3)	R
0010	DISP-KWH	KWH: range 00000000~000F423F (0~9999.99)(3)	R
0012	DISP-TIME	KWH-TIME (hour): range 0000~270F (0~9999)(4)	R
0013		KWH-TIME (min): range 0000:003B(0~59)(4)	R

Note:

(1): When over condition occur, output can not LOAD ON (must check load), LOAD OFF command can recheck status, if no over condition occur, LOAD ON command can accept

(2): When change alarm-select, alarm value must need change, otherwise LOAD ON/OFF may wrong . Alarm value range in ACA(0~15.00) and WATT(0~3900), others is in their full range

(3): Decimal point not include

(4): HHHH:--MM, high word is hours, low word is minutes

(5): EEPROM write over 1 million times (guarantee 10 years)