

# IR COMMANDER

## User Guide



# Hardware Description

## IR COMMANDER



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Sub Metering Connector

PIN	Assignment	Description
1	5V	Output
2	RS232 Tx	Output
3	RS232 Rx	Input
4	GND	-

Power & Rs485 Connector

PIN	Assignment	Description
1	12V	Input
2	RS485+	Input/Output
3	RS485-	Input/Output
4	GND	-

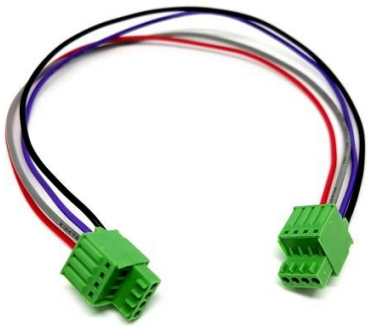
LED STATUS



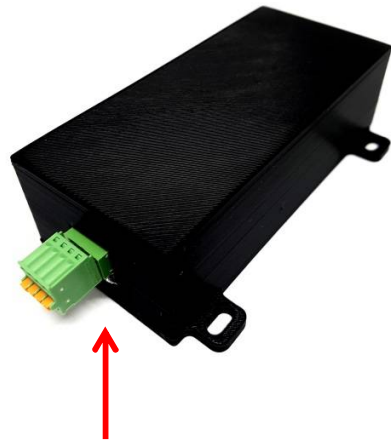
	Off	On	Blink
ARC	Default ID (ID = 128)	Set ID	-
IR	IR no active	-	IR Active
SUB	Sub Metering Disconnect	-	Sub Metering Connect
Rx	RS485 Write not active	-	RS485 Write Active
Tx	RS485 Read not active	-	RS485 Read Active

# Hardware Description

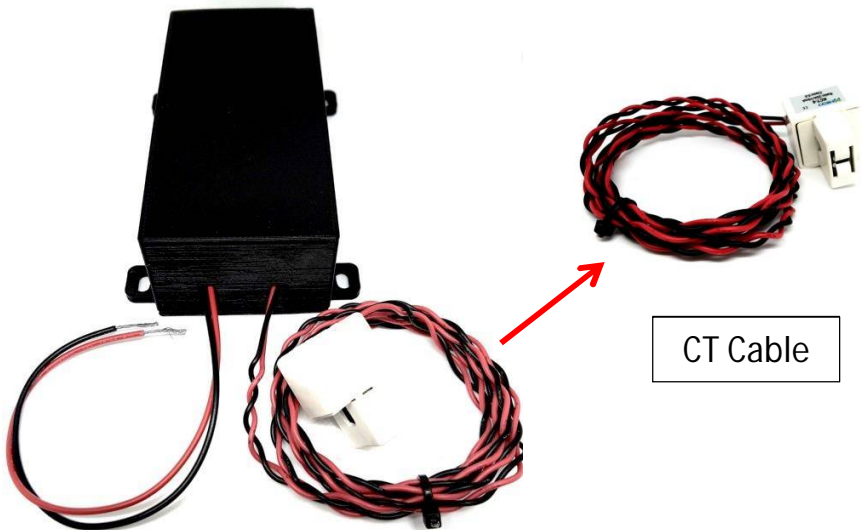
## SUB METERING



Sub Metering Cable



Sub Metering Connector



AC Power Cable  
AC 220V  
Red → Line Power  
Black → Neutron

CT Cable

## Modbus ID IR Commander

ID	Read/Write	Description
40001	Read	Hardware version
40002	Read/Write	ID IR commander
40007	Read	All time of air conditioner (hour)
40008	Read	Temperature/100 (°C)
40009	Read	Humidity/100 (%RH)
40010	Read	Voltage in box/1000 (V)
40011	Read	Sub metering connect (connect=1, disconnect =0)
40012	Read	Sub metering voltage/10 (V)
40013	Read	Sub metering current/10 (A)
40014	Read	Sub metering watt/10(watt)
40017	Read	Sub metering watt hour/10 (wh)
40018	Read	Sub metering power factor/1000
40021	Read	IR Read Power (Off=0, On=1)
40022	Read	IR Read Mode (Snow=0, Fan=1, Dry=2)
40023	Read	IR read temperature (18-30C)
40024	Read	IR read swing (Off=0,On=1)
40025	Read	IR read fan (Low=0,High=1)
40026	Read	IR read connect
40031	Read/Write	IR write Power (Off=0,On=1)
40032	Read/Write	IR write Mode (Snow=0, Fan=1, Dry=2)
40033	Read/Write	IR write temperature (18-30C)
40034	Read/Write	IR write swing (Off=0,On=1)
40035	Read/Write	IR write fan (Auto=0,Low=1,Medium=2,High=3)
40036	Read/Write	IR send command to air condition