Manuals+ — User Manuals Simplified.

COTEK CT-201 Communication Interface Module User Guide

Contents

**COTEK CT-201 Communication Interface Module**

Features

- Support COTEK Programmable Series power supply (Excluding AK & AEK-3000 ORing Series)
- Support max. 8 units parallel control function
- Support RS232/485 protocol
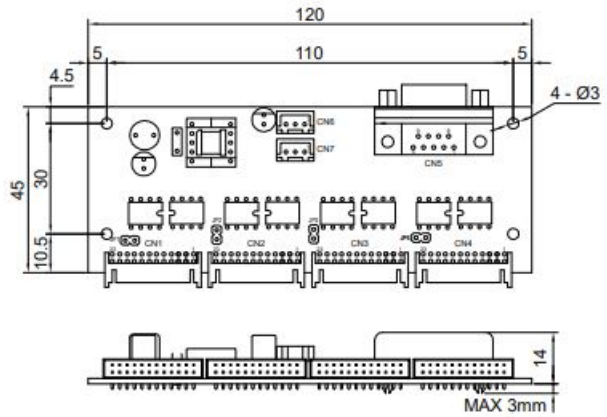- Easy installation for parallel control.

Specification

- Input Voltage: 5Vdc
- Operating Temperature Range: -10℃ ~ 60℃
- Storage Temperature Range: – 30℃ ~ 70℃
- Baud rate: 4800, N, 8, 1
- Connector: DB-9F fo RS232, RJ-11 (6P4C) for RS485
- Optical Isolation: I/P – O/P: 2500Vac rms for 1 minute
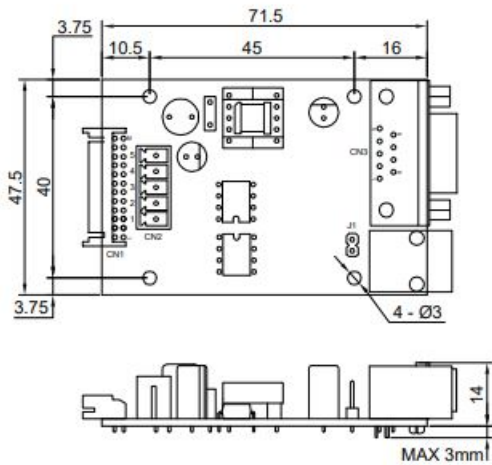
Mechanical dimension

MODEL: CT-201
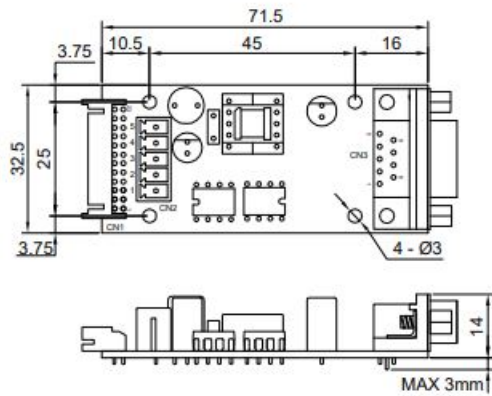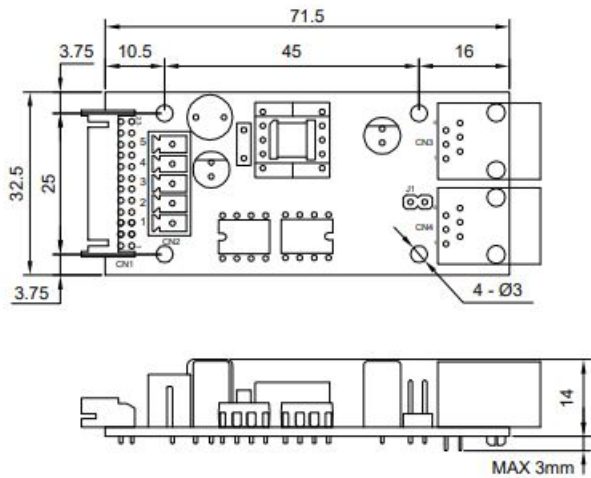

MODEL: CT-204

MODEL: CT-251

MODEL: CT-551

CT cable drawing

- **CT-201 / CT-204 Cable (COTEK Part no.47-0124-0001)**

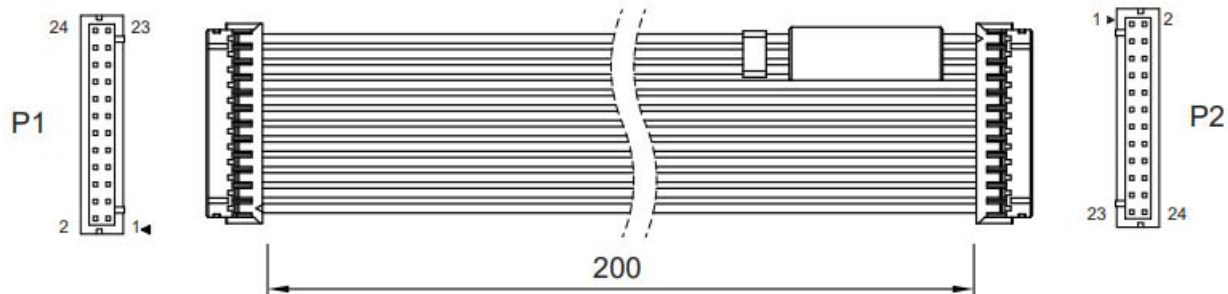| Mating Housing / Contact	
JST PHDR-24VS or equivalent	JST SPHD-002T-P0.5 or equivalent
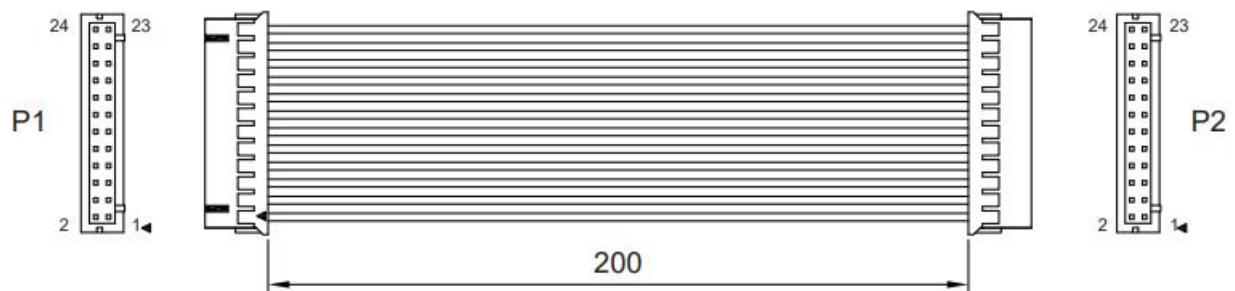
- **CT-251 / CT-551 Cable (COTEK Part no.47-0112-0021)**

Mating Housing / Contact	
JST PHDR-24VS or equivalent	JST SPHD-002T-P0.5 or equivalent

P1 — 24 23 ... 2 1

P2 — 1 2 ... 23 24

200

WARNING!

CT-251 / CT-551
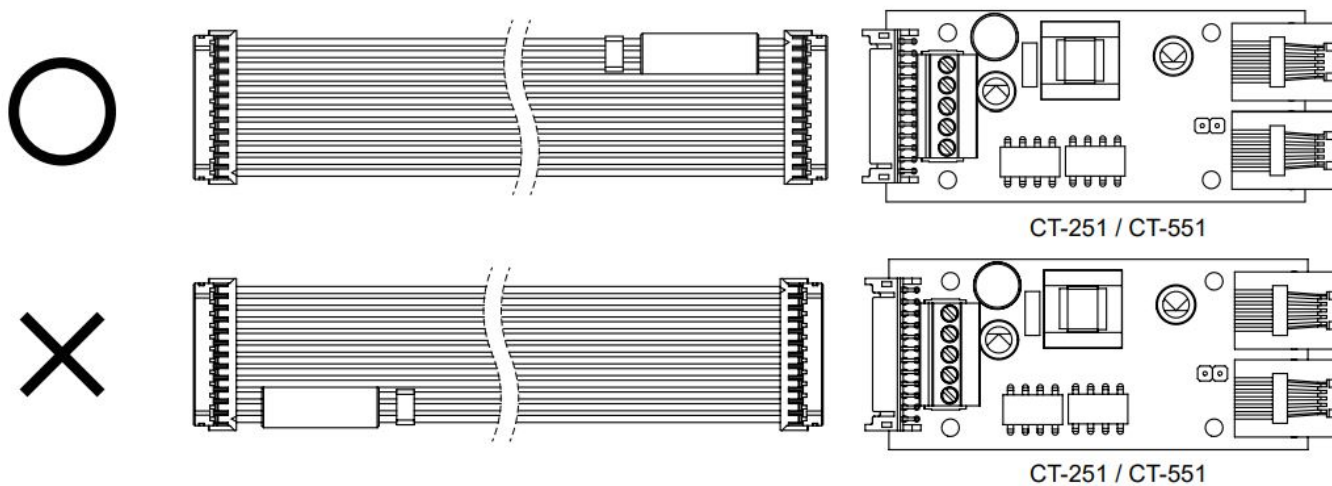
CT-251 / CT-551

- **CT parallel cable (For CT-551 Only) (COTEK Part no. 47-0106-0003)**

12.4±0.3

6.5±0.2

3.1±0.2

14.6±0.3

A

9.6±0.2

6

1

(1)

(2)

CONDUCTOR

INSULATION

JACKET

14.6±0.3

3.1±0.2

6.5±0.2

12.4±0.3

B

9.6±0.2

6

1

6P4C

(2)

30cm
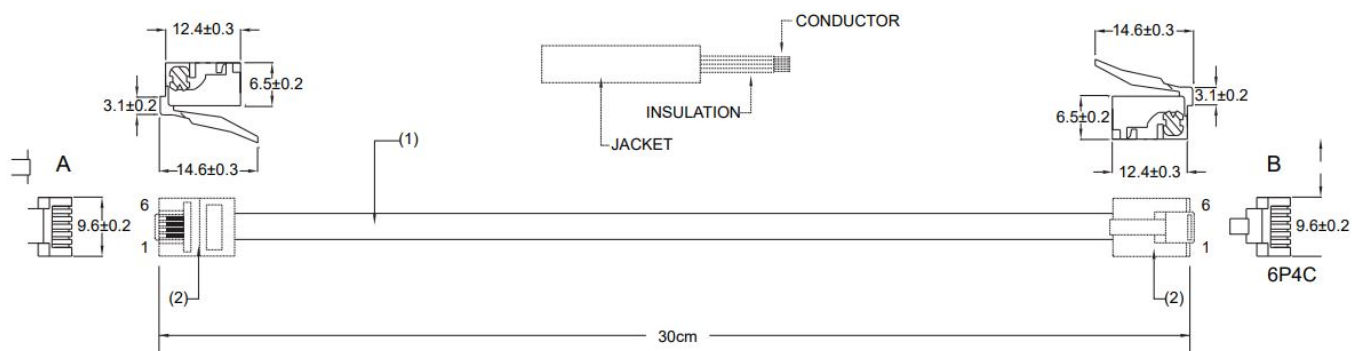
WARNING!

DO NOT use standard telephone cable

- **CT-204 to CT-204 parallel cable (Optional) (COTEK Part no. 47-0103-0028)**

300mm ±5
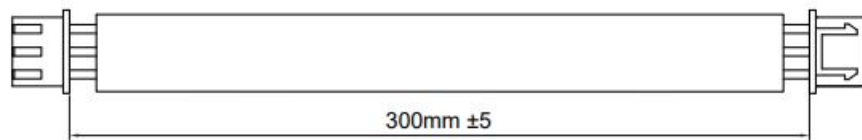
Accessories

Accessories MODEL	User Guide	CT-201 / CT-204 cable	CT-251 / CT-551 cable	CT parallel cable	EC350R-05P connector	CT-204 to CT-204 cable
CT-201	1	1	—	—	1	—
CT-204	1	4	—	—	—	Optional
CT-251	1	—	1	—	1	—
CT-551	1	—	1	1	1	—

Pin assignment

- **DB-9F RS232 (only for CT-201/204/251)**

1	NC
2	RxD
3	TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC
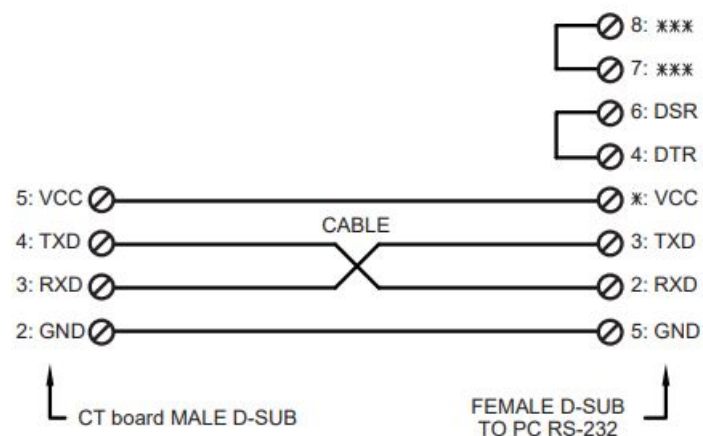
- **RJ-11 6P4C RS485 (only for CT-251/551)**

1	NC
2	GND
3	DATA +
4	DATA −
5	+5V
6	NC
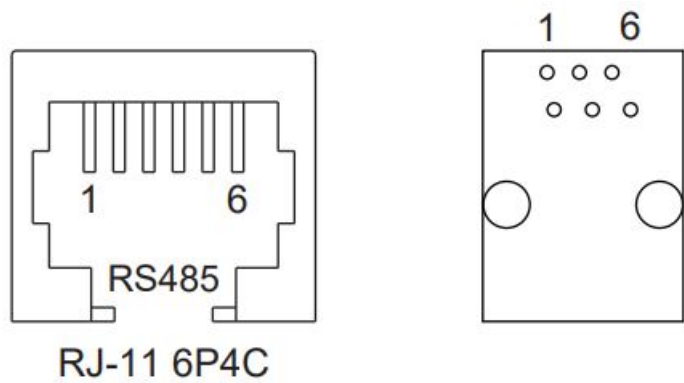
- **ECH350V-05P DINKLE (only for CT-201/251/551)**

1	GND
2	AUX
3	PAR
4	VS −
5	VS +
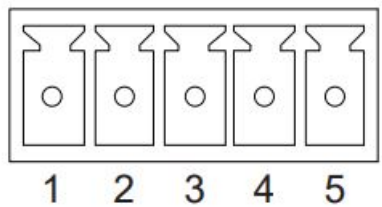
- **B-XH-A 180'C (only for CT-204)**

1	GND
2	RxD
3	TxD
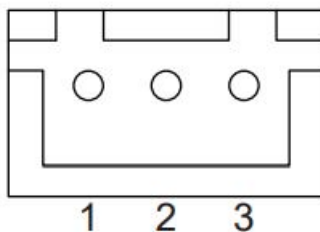
- **Control Pin connections: JST S24B-PHDSS or equivalent**

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	VS+	6	GND	11	EN+	16	GND	21	AUX
2	VO+	7	PAR	12	AUX	17	AUX	22	GND
3	VS-	8	VSET	13	ACI	18	GND	23	NC.
4	VO-	9	EN-	14	GND	19	SCL	24	NC.
5	POK	10	GND	15	VCI	20	SDA		

CT Series Quick Feature Guide

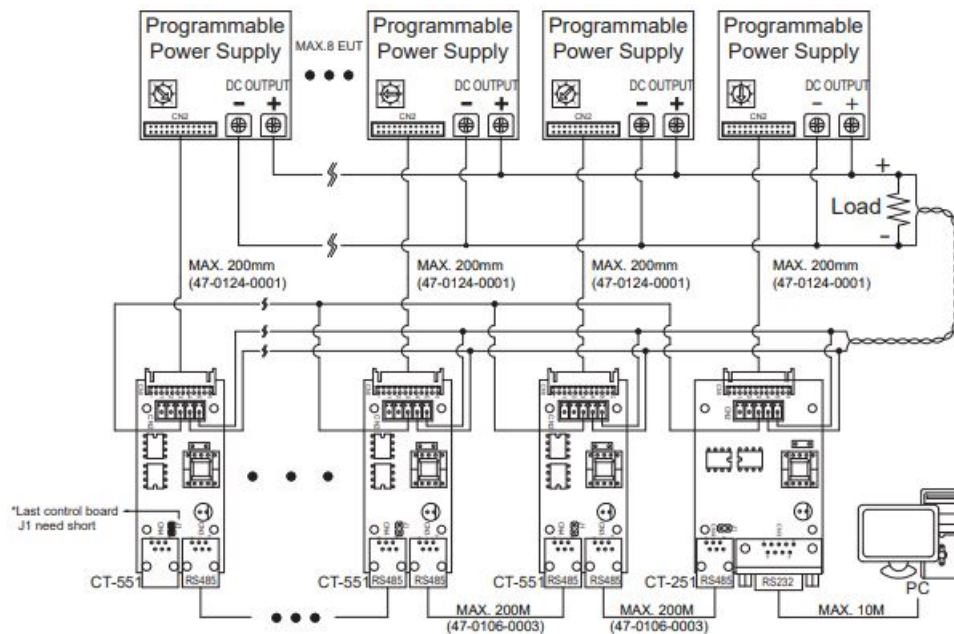| Function MODEL	Parallel / Remote sense	To Host	Power Connection	RS485 Expansion	RS232 Expansion
CT-201		RS-232(DB-9F)	1 Unit		
CT-204		RS-232(DB-9F)	4 Units		
CT-251		RS-232(DB-9F)	1 Unit		
CT-551		—	1 Unit		

Application Notes

MODEL: CT-201
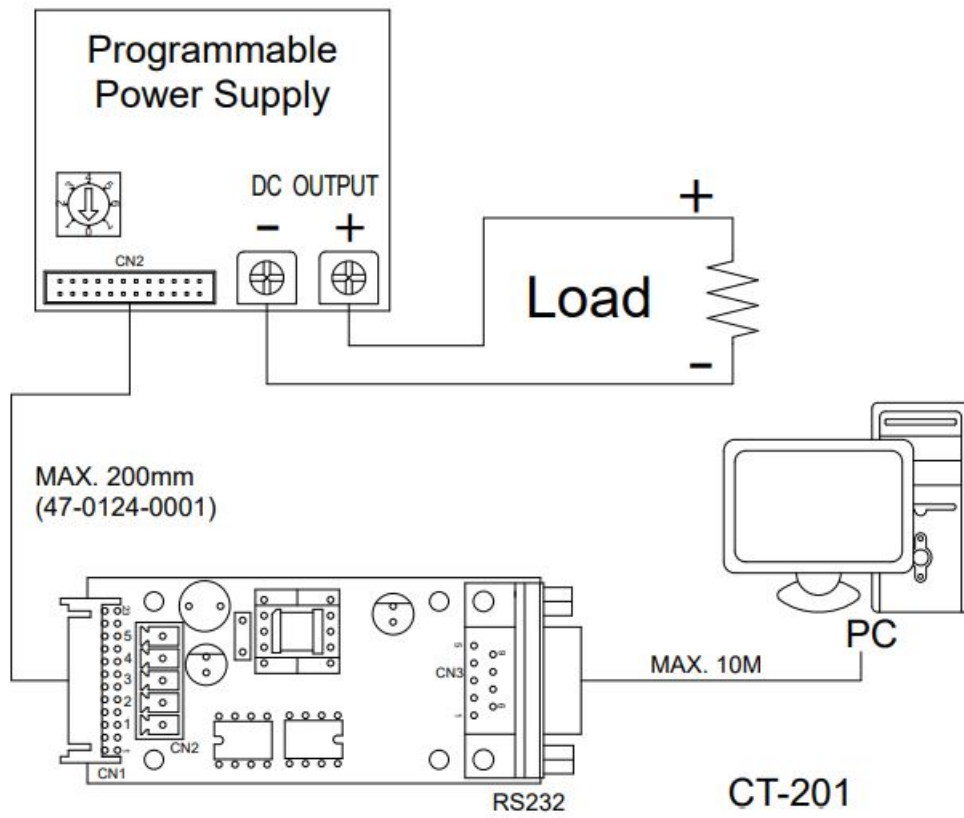
**MODEL: CT-204 Control 8 EUT in parallel condition.**
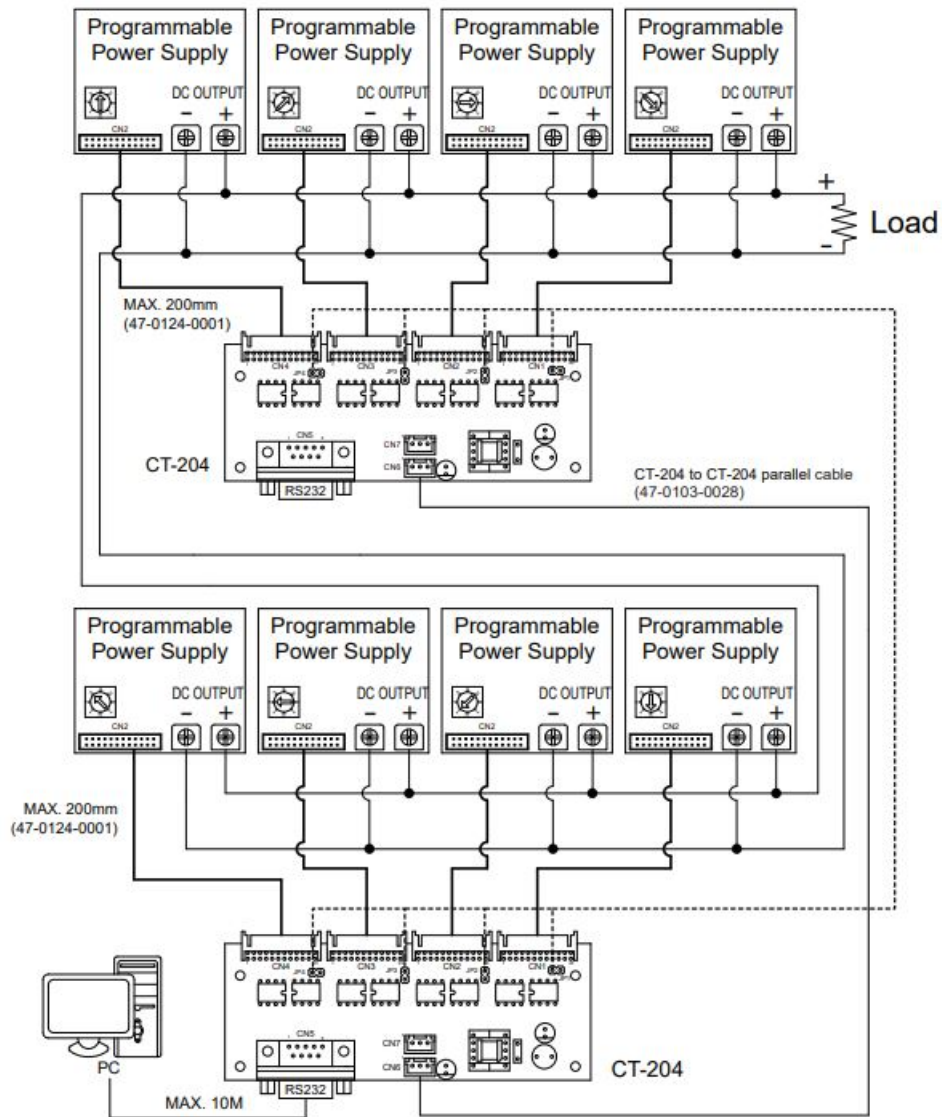
MODEL: CT-251 / 551 Parallel Control with Remote Sensing

Before using RS232/485 to control COTEK programmable SMPS (excl. AK Series), make sure to read the following notes:

1. Make sure the voltage and current setting has been correctly delivered to EUT before setting the command (Power) to turn on / off the power supply. If OVP or OLP LED signal has been activated due to incorrect operation, entering the command POWER will allow you to operate the EUT and setting command.
2. Every RS232/485 command character must be entered within 400ms, the ending point is judged by CR LF (0D0A), program will disregard the command if the command entering time exceeds 400ms per character.
3. After shut-down of the power of EUT, the command setting will return to default, local mode.
4. After power on the EUT with command execution is complete, EUT will switch to remote mode with an orange LED signal status. For detailed LED signal info, please refer to the EUT datasheet.
5. Please refer to the CT-xxx user manual (Page 02) for the cable spec. connect in between the CT-xxx controller board and EUT. Make sure to connect the cable as instructed in the user manual to avoid CT-xxx damage.
6. CT-xxx boards could support max. 8 units parallel control function (ADDS0-7). Before controlling the EUT, make sure the address is not in conflict with each other.
7. When controlling multiple EUTs, make sure to query the Address (ADDS x) first before entering a command to avoid EUT retrieving the incorrect value. If only a single EUT, there is no need to query ADDS before entering the command.

Documents / Resources
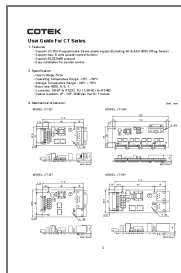
COTEK CT-201 Communication Interface Module [pdf] User Guide
CT-201, CT-204, Communication Interface Module, Communication Interface, Interface Module, CT-201, Module

References

- ^{cotek} **COTEK - Inverter Power Supply, Electronic Inverter Manufacturer**