Accessories and part options
TS-S2/TS-SH/TS-X/TS-P

Standard accessories

- **Power connector**
  - Model: KCC-M4421-00 (TS-S2) / KCC-M4421-01 (TS-SH) / KCC-M4421-02 (TS-X) / KCC-M4421-03 (TS-P)

- **Power connector (AC100V specifications)**
  - Included when 100V model is purchased
  - Model: KCA-M5382-00 (TS-X) / KCA-M5382-01 (TS-P)

- **Power connector (AC200V specifications)**
  - Included when 200V model is purchased
  - Model: KAS-M5382-00 (TS-X) / KAS-M5382-01 (TS-P)

- **EXT connector**
  - For braking power and safety circuit connections
  - Model: KCA-M5370-00 (TS-X) / KCA-M5370-01 (TS-P)

- **Dummy connector**
  - Model: KCA-M5163-00 (TS-X) / KCA-M5163-01 (TS-P)

- **I/O cables (2m/20-core×2)**
  - Model: KCA-M4421-20 (TS-X) / KCA-M4421-21 (TS-P)

- **Absolute battery**
  - **Absolute battery basic specifications**
    - Battery type: Lithium metallic battery
    - Battery capacity: 3.6V / 1,650mAh or 3.6V / 2,750mAh
    - Data holding time: About 1 year (in state with no power applied)
    - Dimensions: φ18 × L50mm or φ17 × L53mm
    - Weight: 24g or 22g
  - Model: KCA-M53G0-10 (For TS-X) / KCA-M53G0-01 (For TS-SH)
  - Note: The absolute battery is subject to wear and requires replacement. If trouble occurs with the memory then remaining battery life is low so replace the absolute battery. The battery replacement period depends on usage conditions. But generally you should replace the battery after about 1 year counting the total time after connecting to the controller and left without turning on the power.

- **CC-Link connector (CC-Link specifications)**
  - Included when CC-Link model is purchased
  - Connector: KCA-M4872-00 (TS-S2) / KCA-M4872-01 (TS-SH) / KCA-M4873-00 (TS-X) / KCA-M4873-01 (TS-P)
  - Note: This is a single connector type. Insert two connectors into a branching socket.

See next page for optional parts
Options

- Handy terminal
  HT1/HT1-D
  - Model
    - HT1: KCA-M5110-0J
    - HT1-D: KCA-M5110-1J
  - Enable switch
    - 3-position
  - CE marking
    - Not supported
  - Applicable
    - TS-S2
    - TS-SH
    - TS-X
    - TS-P

- Support software
  TS-Manager

  TS-Manager environment
  - OS
    - Microsoft Windows 2000 / XP / Vista (32bit/64bit) / 7 (32bit/64bit)
  - CPU
    - Exceeding the environment recommended by the OS being used
  - Memory
    - Exceeding the environment recommended by the OS being used
  - Hard disk
    - Vacant capacity of more than 20MB in the installation destination drive
  - Communication port
    - Serial (RS-232C), USB
  - Applicable controllers

  Note. Windows is the registered trademark of US Microsoft Corporation in U.S.A. and other countries.

- Data cables
  Communication cable for TS-Manager.
  Select from USB cable or D-sub cable.
  - Model
    - USB type (5m): KCA-M538F-A0
    - D-Sub type (5m): KCA-M538F-01
  - Note. USB driver for communication cable can also be downloaded from our website.

- Daisy chain and gateway connection cable

- CC-Link termination connector
  (CC-Link specifications)
  - Model: KCA-M4874-00

- TS-Monitor (LCD monitor)
  - Model
    - For TS-X: KCA-M5119-00
    - For TS-P: KCA-M5119-10

- DIN rail mounting bracket
  (This bracket is provided in TS-SH as standard equipment.)
  - Model
    - For TS-S2: KCC-M499A-00
    - For TS-X / TS-P: KCA-M499A-00

Note. USB driver for communication cable can also be downloaded from our website.