

# IKO Programmable Controller CTN481G (RoHS Compliant)



**IKO** -Programmable controller is a controller for positioning control with high functionality and operability, and CTN481G is a high-end model with additional functions and compatibility with conventional CTN480G products. As the external appearance dimensions, mounting dimensions and connector specifications are the same as those of conventional CTN480G products, this may simply replace CTN480G. Drivers and connection cords of conventional CTN480G products can be used.

## Features

### 1 High speed and high resolution controls

Both high speed and high resolution controls superior to conventional products are realized with high speed pulse output up to 8 MHz!

Resolution of positioning table ( $\mu\text{m}/\text{pulse}$ )	Table traveling speed (mm/s)	
	CTN480G (Conventional) Maximum pulse output frequency: 6 MHz	CTN481G Maximum pulse output frequency: 8 MHz
0.01	60	80
0.05	300	400
0.1	600	800
0.5	3 000	4 000
1	6 000	8 000

NEW

## 2 Rich functionality and operability!

### ● USB1.1 interface as standard equipment

With dedicated commands, data editing, controller operations and direct execution from PC are allowed!

Item	Model	CTN480G (Conventional)	CTN481G
Communication specifications		USB (virtual COM)	USB1.1
Communication speed		Up to 38.4 kbps	Up to 12 Mbps

NEW

### ● Data can be stored and transferred via USB memory available on the market!

Item	Model	CTN480G (Conventional)	CTN481G
Data storage media		CompactFlash	USB memory

NEW

- Super high function type that enables to program input up to 10,000 steps.
- By using integrated I/O sequence function, timer, counter and calculation function, a system can be configured easily without any sequencer.
- As absolute encoders of YASKAWA ELECTRIC CORPORATION, Panasonic Corporation, and Mitsubishi Electric Corporation are supported, return to origin operation at the startup is not required.
- The synchronization control function allows for simultaneous execution and shutdown of 2 axes possible (gantry mechanism control is possible).
- Multi-tasking function allows for simultaneous execution of up to 5 programs.
- You can correct the positioning accuracy control by entering positioning correction data in advance.
- Up to 4 controllers (sixteen-axis control) can be connected through RS485 connection.
- Thanks to RS422 interface as standard equipment, LAN cable available on the market can be used and streamlined wiring by touch panel or sequencer data communication is possible.
- With optional units, streamlined wiring system using MECHATROLINK, SSCNET and EtherCAT can be supported (to be supported).

## >>> Specification (abstract)

General specifications and external appearance dimensions are as follows. For details of other specifications, contact **IKO**.

Table 1 General specification

Item	Model	CTN481G
Power supply voltage		DC24V $\pm$ 10%
Max. current consumption		4.5 A
Ambient temperature		0 ~ 50°C storage -10 ~ 60°C
Ambient humidity		20 ~ 85% RH (keep dewdrop free)
Measure against power outage		Flash memory
Mass (Ref.)		Body : 1.2 kg
		Teaching box : 0.5 kg
		I/O add-in unit : 0.4 kg

Remark: Model number of the dedicated teaching box (separately sold) is TAE10M5-TB.

External appearance dimensions for CTN481G

