



YTC-3 POKAYOKE CONTROLLER

FASTENING TOOLS

DRILLS AND TAPPERS

GRINDERS

PERCUSSIVE TOOLS AND OTHERS

RECOMMENDED PRODUCTS



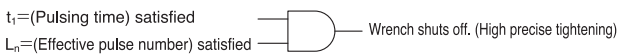
MAIN FEATURES

- Various wrenches can be applicable.
 - Not only special wrenches (Wrenches with pressure detection tube), but also general wrenches and various wrenches can be used
 - Special wrenches (Wrenches with pressure detection tube)
 - General impulse wrenches (Special joint is required.)
 - General impact wrenches (Special joint is required.)
 - Shut-off wrenches (Special joint is required.)
 - TM type Shut-off wrenches (Wrenches with pressure detection tube)
 - QL wrenches (The bolt number is managed for QL wrenches with the contact signal.)
- The parameter set of the keyboard can be protected by the password number.
- When low air pressure is used, tightening sensitivity can be increased by doubling amplification factor.
- Automatic group change is possible. (Effective when external input change is not used.)
- Group change is possible through the front panel key. (Effective when external input change is not used.)

SIGNAL PROCESSING

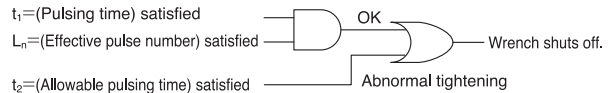
Monitoring and processing of pulsing time, pulse number and pulse wave height.

● Highly accurate tightening

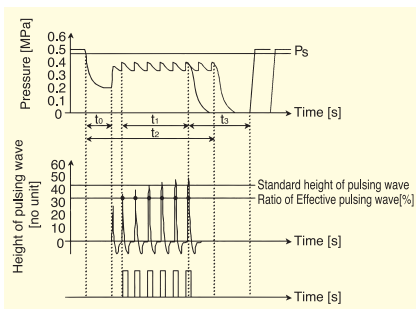


If effective pulse number L_n might be insufficient even if t_1 passes while the wrench is running, the wrench continues to run until effective pulse number satisfies.

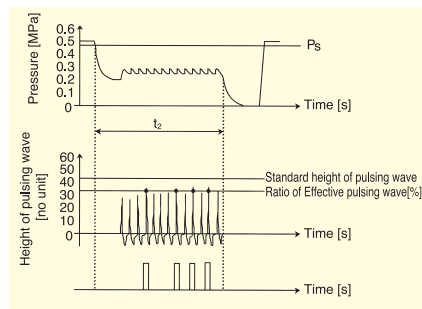
● Tool Deterioration detection



The deterioration error is output and the wrench shuts off when reaching at allowable pulsing time t_2 , without satisfying the effective pulse number L_n due to the deterioration of the wrench.



t_0 = Free running time
 t_1 = Pulsing time
 t_2 = Allowable pulsing time
 P_s = Pressure at free running of wrench
 L_n = Effective pulse number





FRONT PANEL

OK Lamp

The lamp puts on when a work group is completed. (Remaining number is "0")

Display Lamp

To show parameter, bolt number, and air pressure.

MODE

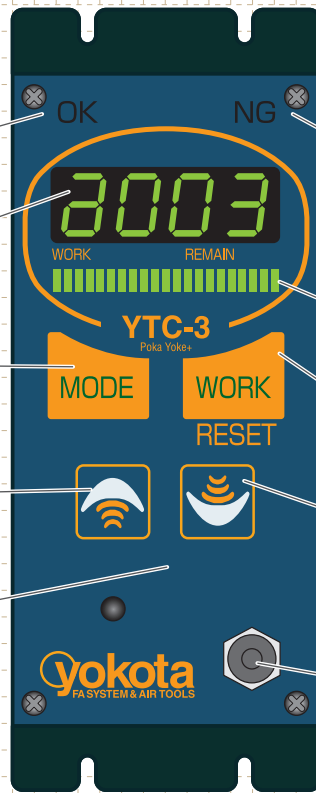
To select parameter at setting.

UP

To raise number to select parameter

Buzzer

Tightening OK: Short sound (about 0.2 secs.)
Group finish: Long sound (about 2 secs.)
Miss-tightening: intermission sound (Pi Pi Pi...)



NG Lamp

The lamp puts on for NG-tightening, miss-tightening and other abnormal conditions.

Bar Graph

Display of bolt number, air pressure and working time.

WORK / RESET

Work selection and initialization

DOWN

To lower number to select parameter

Pressure Sensor

For pressure tube

BACK PANEL

Terminal Board

External sensor connection

Output Terminal

No voltage contact

Input Terminal

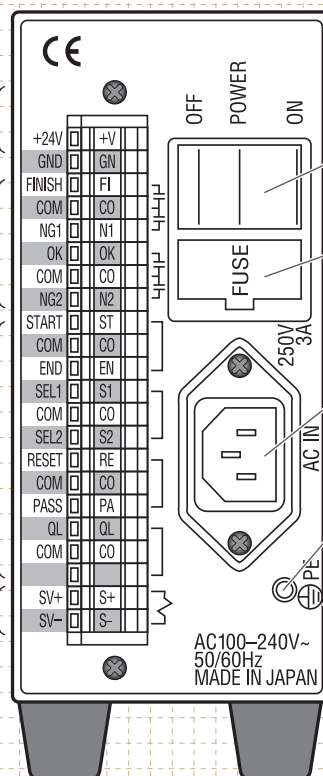
Input by being short-circuited with the terminal COM.

Solenoid Valve Terminal

DC24V N.O

■SV+ : Solenoid valve+terminal

■SV- : Solenoid valve-terminal



Power Switch

Fuse Box

Power Supply

Cable Connection Terminal For Power Supply

Earth Terminal For Electric Shock Prevention



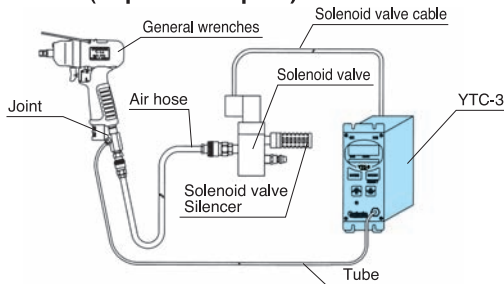
GENERAL SPECIFICATIONS

Terminal board	External input (insulation terminal by photocoupler)	8pcs.
	Non voltage contact output	4pcs.
	Sensor	Sensor with an analog output of 1-5V for air pressure 0-0.99MPa used.
Power supply	Power supply input	AC100—240V±10% 50/60Hz
	Power consumption	10W 以下 10W or less
Externals and weight	Size of controller	70 (W) × 150 (H) × 175 (D) mm ※Projected parts like terminals etc. are not included. 2.8 (W) × 6 (H) × 6.9 (D) in
	Front panel	70 (W) × 180 (H) mm 2.8 (W) × 7 (H) in
	Weight	1.8kg

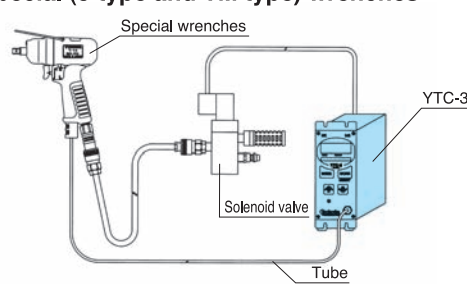
The specifications is subject to change without notice.

SYSTEM CONFIGURATION

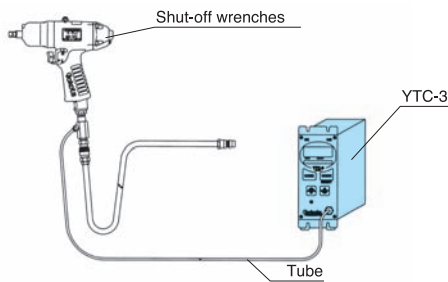
General (Impulse · Impact) wrenches



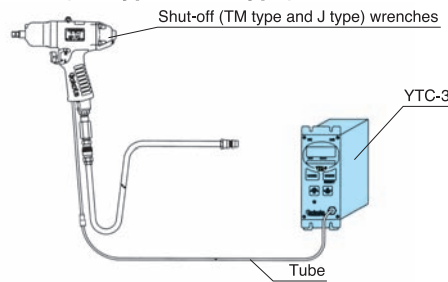
Special (J type and TM type) wrenches



Shut-off wrenches



Shut-off (TM type and J type) wrenches



Attention
Please note that the wrench basic setting is different partially in each wrench. Please confirm the details when purchasing the products.

ACCESSORIES

● Standard accessory ● Optional accessory ● Accessories

● Joint (1/4" for small and medium, 3/8" for large wrenches)

● Regulator 3/8" and 1/2"



	APPLICABLE MODELS
● Joint (1/4" for small and medium)	YX-80A~700 · Y-46~90 · Y-T45~90 · YLa70~90
● Joint (1/4" for large)	YX-900~3000 · Y-100~140 · YLa110
● Joint 3/8"	YX-4500



● Solenoid valve 3/8" and 1/2"



Solenoid valve cable
4m · 6m · 10m

● Tube (φ4×5m)



● Silencer for solenoid valve
3/8" and 1/2"

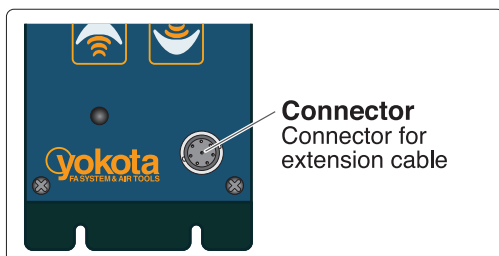


● Spiral hose with tube



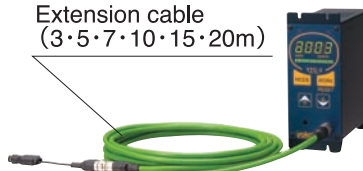
YTC-3-A

The case where the distance between a tool and a controller is beyond 5m



● Special accessories
(order separately)

Extension cable
(3 · 5 · 7 · 10 · 15 · 20m)



Configuration of non-shut off tool

