

Handy Calibrator CA150 Application Notes



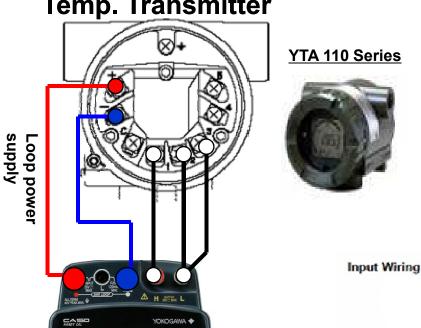
Yokogawa Meters & Instruments

Temperature Transmitters

 Operation check of Temperature Transmitter made by Yokogawa.

Calibration of YTA110 series Pt100 connection

Temp. Transmitter



Example: With YTA110 series

Connection: Connect loop power to YTA.

Connect CA150source to input of

YTA sensor (Please refer

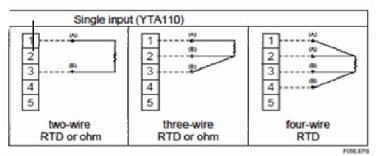
connection diagrams)

Characteristics: Source response time is 5ms at *specific ranges. *1V / 10V / 500 Ohm (excitation current

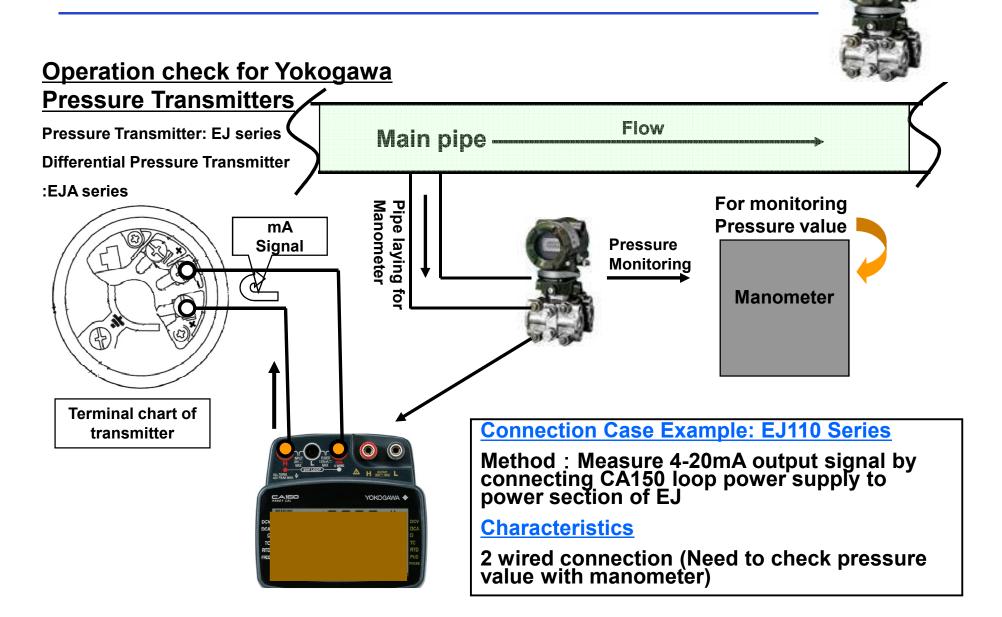
1mA) and RTD (excitation current 1mA)

Can be mach with YTA's input response time

Connection diagram with YTA



Connection Pressure Transmitter

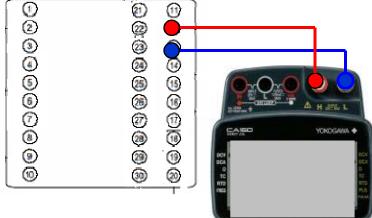


Temp. Controller/Indicating Controller Connecting Samples



•Calibration, function check in Yokogawa Electric made UT series Ind. Controller and UP series Programmable Ind. Controller.



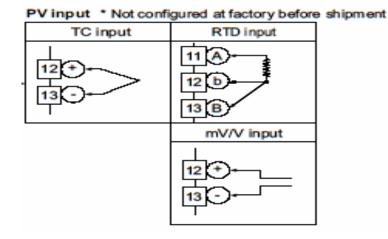


Connecting Sample of UT351 series Temp. Controller

Connect CA150 cable to UT sensor input (see figures below). Check the indication.

Outstanding features: Multi output is available with CA150 so that one unit of universal input type indicator functions as required.

UT/UP connection samples

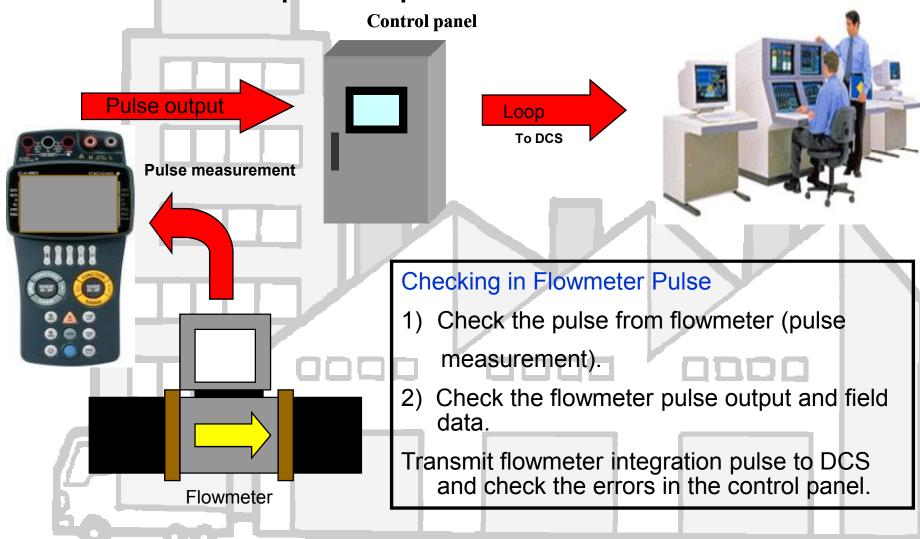


UT351 terminal connection

Checking in Flowmeter Pulse

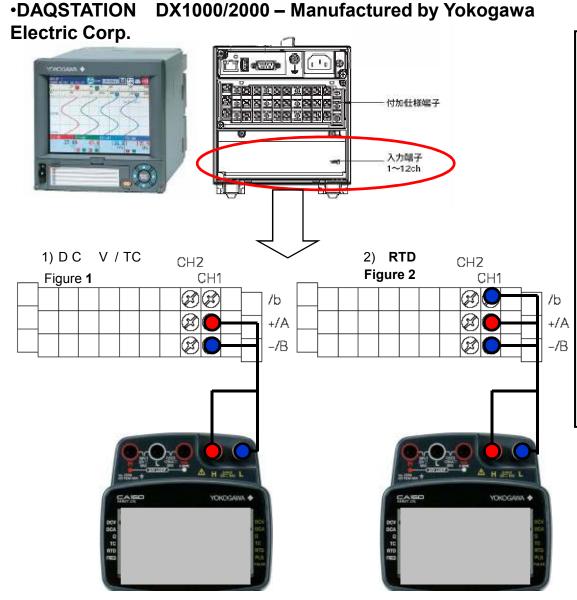
YOKOGAWA 🔷

Check the flowmeter pulse output and field data



Conn. Samples of DAQSTATION DX1000





DX1000 Connecting samples

① DC V/TC input

Connect to DX1000 (see figure 1)

Check if the specified value is generated and indicated.

② RTD input

Connect to DX1000 (see figure 2).

Check if the specified value is generated and indicated.

Outstanding features: Multi output is available with CA150 so that one unit of universal input type functions as required.

It is recommended to use this equipment for an experiment in a product development situation or checking use prior to recording process.

YS Series SLCD Connection Samples

Terminal

YOKOGAWA 🔷

YS80 Series – Manufactured by Yokogawa Electric Corp.

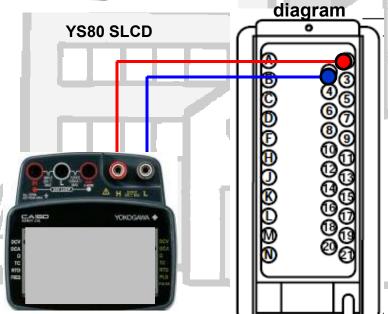


Connection Sample: YS80 SLCD

Connect CA150 cable to SLCD measuring input (see terminal diagrams below).

Check the indication.

Outstanding Features: It is recommended to use in checking of cascade arithmetic, programming supplementary or field use at the time of start-up service.



■ TERMINAL CONNECTIONS

Terminal Designation	Description	Terminal Designation	Description
1 2 3 4 5 6 7 8 9	Process variable input (1 to 5 V DC) Cascade set point input (1 to 5 V DC) Tracking input (1 to 5 V DC) Feedforward input (1 to 5 V DC)	17 18 19 20 21 A B C D	
11 12 13 14 15	> Instrument mode> switching> C, A/M contact output> C/A, M contact output	H J K L M N	(1 to 5 V DC) This is a serior of the control of t