

**Yamatake-Honeywell****SPECIFICATION**

NFT2 type Indicating Controller is a field-mount type pneumatic controller that indicates a process temperature and at the same time, transmits a controller output pneumatically by comparing it with a setpoint value.

**Specifications****Sensing element**

*Type of sensor:* Mercury-filled spiral type

(Without ambient temperature compensator.)

*Measuring range:* 0~50, 0~100, 0~150, 0~200°C

*Effect of ambient temperature variation:* ±1% FS/±10°C

**Connections:**

Union type; PT1 or ¾ (ISO R7 1" or ¾") male

Screw type with protecting tube; PT1 or ¾ (ISO R7 1" or ¾") male

Flange type with protecting tube; 1" JIS 10K-25

*Length of lead pipe:* 5 meters

**Materials:**

Sensing element; SUS 304 st. st.

Lead tube; SUS 304 st. st.

Armoured tube; SUS 430 st. st.

Spiral; Chromium-molybdenum steel

Protecting tube; SUS 304 or SUS 316 st. st.

**Indication**

*Accuracy:* ±1% FS

*Scale:* Concentric, 270° Indication, 127 mm dia.,

216 mm scale length

**Indicating pointer color:**

Process variable; Red

Setpoint value; Green

**Controller**

*Setpoint index:* External setting (with a thumbwheel at a lower front part of the case.)

*Type of control:* PI

**Controller performance:**

Proportional band (P); 5~500%

Integral (I); 10 sec.~20 min.

*Output:* 0.2~1.0 kg/cm<sup>2</sup>

*Air supply:* 1.4±0.1 kg/cm<sup>2</sup>

*Signal piping connection:* PT¾ (ISO R7 ¾") or NPT¾ tap thread

*Air consumption:* 4NI/min. (in the balanced, maximum state.)

**Environmental limit:**

Ambient temperature; -30~+65°C

Relative humidity; 10~100% RH

*Mounting:* Wall mounting or vertical 2-inch pipe mounting.

**Case:** Weatherproof

Case material; Aluminum die-cast

Cover material; Polyester with fiberglass

**Finish:** Acryl baking finish

(For corrosion-resistant and silver finish, refer to the optional specification.)

**Color finish:**

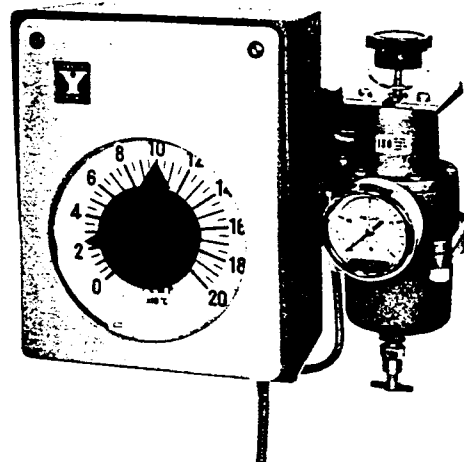
Case; Dark beige

Cover; Light beige

*Net weight:* Approx. 5 kg.

**BULL'S EYE TYPE  
PNEUMATIC TEMPERATURE  
INDICATING CONTROLLER**

MODEL : NFT 2



NFT2

**Options (Accessories)**

Following accessories are optionally available.

**(1) Output gage set**

50mm dia. pressure gage with manifold.

**(2) Simplified 3-position bypass set**

Air-set, output gage set and transferring unit.

**(3) Air-set**

Pressure regulator with filter and 50 mm dia. pressure gage.

Item (4) is the semi-standard option.

**(4) Corrosion-resistant and silver finish (Y138A~D)**

Corrosion-resistant (Acryl baking) finish (Y138A);

Resistance for corrosive gases.

Corrosion-proof (Epoxy baking) finish (Y138B);

Resistance for corrosive liquids.

Silver-normal (Acryl baking) finish (Y138C);

Protection for temperature rise of device caused by direct sun light, radiation heat, etc.

Silver-corrosion-resistant (Acryl baking) finish (Y138D);

Protection for above-mentioned temperature rise and resistance for corrosive gases.

(Note: Silver finish is not applicable for alkaline gases.)

**Yamatake-Honeywell Co. Ltd.****Process Control Division**

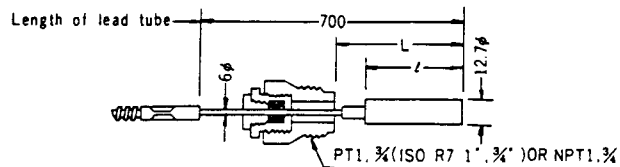
**Sales Headquarters** : Nagai International Bldg., 12-19, Shibuya 2 chome, Shibuya-ku, Tokyo, 150 Japan

Tel : (03) 409-7171 Telex : J22902 Cable : YAMATAKE CO

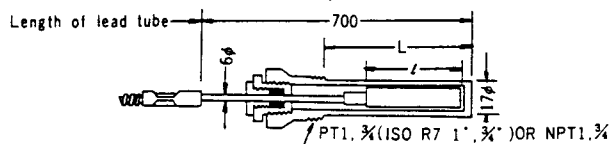
**Model Number Table**

Basic Model No.		Sensor Type	Mounting Method	Option	Description	
Type	Control Type					
NFT	2	-	1		Pneumatic Temperature Indicating Controller	
					PI	
					Mercury-filled Spiral Type	
	-			2		Wall Mounting
						2-inch Pipe Mounting
						-X No Selection
						-1 Output Gage Set
					-2 Simplified 3-position Bypass Set	
					-7 Air-Set	

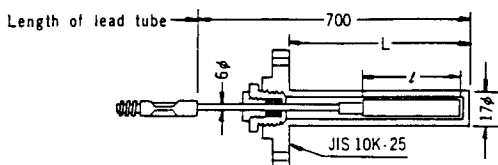
**Sensing Bulb Dimensions**



Union Type



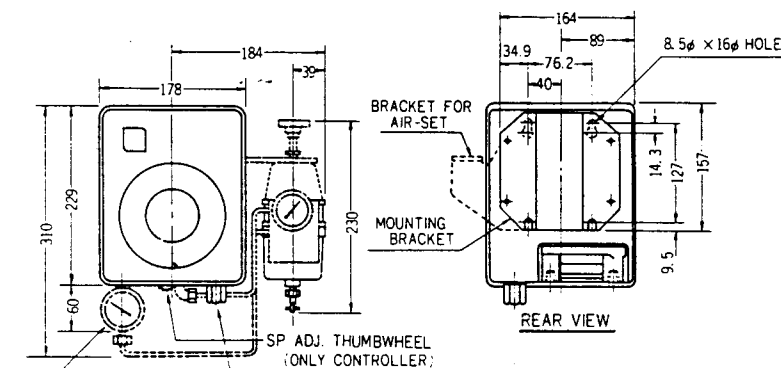
Screw Type With Protecting Tube



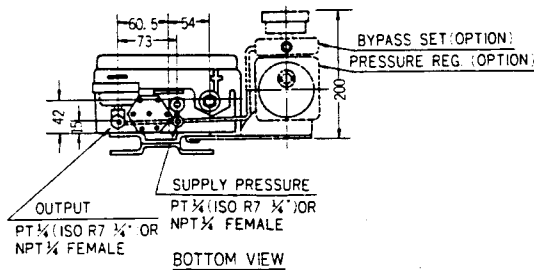
Flange Type With Protecting Tube

Span (°C)	Bulb Length l (mm)	Length from screw or flange to end (insertion length)	
		Minimum	Maximum
50	279	300	600
100	151	200	600
150	102.5	150	600
200	85	100	600

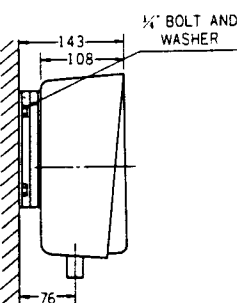
**Dimensions**



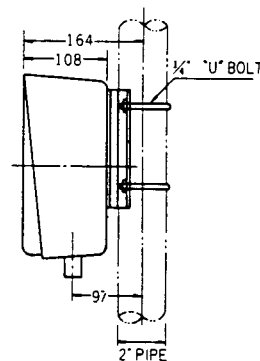
IN THE CASE OF PRESSURE METER ... PROCESS CONN.: PF 1/4-A (ISO R228 1/4") (WHEN PNEUMATIC SIG. REC. TYPE; PT 1/4 (ISO R7 1/4") OR NPT 1/4 FEMALE.  
 IN THE CASE OF TEMP. METER ... CONNECT TO LEAD OF SENSING BULB



WALL MOUNTING



2" PIPE MOUNTING



Note: Vertically mount the transmitter. Do not exceed 10 degrees from vertical in either direction.

**Ordering Information**

When ordering, please specify:

- 1) Model Number
- 2) Measuring Range
- 3) Type of Sensing Bulb
- 4) Optional Equipment

※ Specifications are subject to change without notice.  
 ※ Reference instruction manual ... FP-7021