



YTA SERIES

WIKA YTE Series – Industrial Temperature Assemblies with YTA Temperature Transmitters



Temperature measurement is essential within upstream oil and gas production, as well as petrochemical, plastics, power generation, process, sanitary, medical, UHP and wastewater industries. WIKA, a world leading manufacturer of temperature instrumentation, produces resistance temperature detectors (RTD's) and thermocouples (T/C's) for use in each of these industries. WIKA industrial temperature assemblies can also be combined with Yokogawa YTA series transmitters for a total temperature measurement solution.

WIKA industrial temperature assemblies are available with either a Pt 100 RTD sensor or Type J, K, E, T, or R thermocouple sensor. These are extended into the process using a direct mount bushing, an explosion proof bushing-coupling-nipple, or an explosion proof bushing-union-nipple.

A thermowell is also installed so as to separate the temperature assembly from the process. Within hazardous locations the thermowell becomes an integral part of the temperature sensor assembly. As a result, the "instrument" side of the fitting must meet the requirements of the electrical jurisdictional authority (e.g. CSA, FM). WIKA thermowells are certified for use in hazardous location applications, and are therefore both pressure and electrically certified.

Yokogawa YTA series temperature transmitters can be installed onto the industrial assembly or within the termination head (depending upon transmitter style). The transmitters then convert the temperature dependent change in resistance or voltage of the instrument into a load independent current standard signal. WIKA's unique explosive environment approvals allow customers to install the transmitter to the temperature assembly on-site while maintaining approvals.

The partnership of WIKA and Yokogawa presents a single, global solution for temperature measurement. Worldwide supply chains and global quality programs guarantee product excellence.

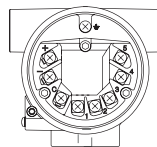
SIGNAL TRANSMISSION



CONTROL SYSTEM

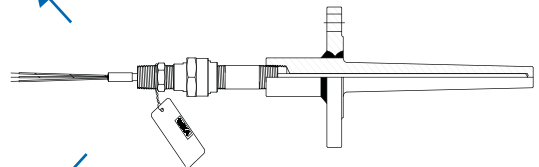


YTA50 / YTA70



YTA110 / YTA310 / YTA320

TEMPERATURE MEASUREMENT



YTE SERIES
RTD / THERMOCOUPLE ASSEMBLY

Bulletin 22A00R05-01E

www.yokogawa.com



WIKAI
YTE SERIES

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Specifications

Applications:	<ul style="list-style-type: none"> Chemical engineering Process engineering High chemical loads High process loads
Sensor Type:	RTD: Pt 100, Class A or Class B T/C: Type J, Type K, Type E, Type T, or Type R
Temperature Range:	RTD: -50 to +750 °C (-60 to 1380 °F) T/C: Type J 0 to +760 °C (+32 to 1400 °F) Type K -200 to +1260 °C (-328 to 2300 °F) Type E -200 to +870 °C (-328 to 1600 °F) Type T -200 to +370 °C (-328 to 700 °F) Type R 0 to +1480 °C (+32 to +2700 °F) As per ASTM 14.03, E230
Sensor Style:	RTD: Single or Dual Element (3 wire only) T/C: Grounded or Ungrounded, Single or Dual
Wiring Configuration:	T/C: 2 wire (single) or 4 wire (dual) RTD: 3 or 4 wire

Process Connection:	Flanged, Socket Weld or Threaded Thermowell
Thermowell Style:	Tapered, Straight, or Stepped
Pressure Rating:	Up to 2500 lbs ASME (with flanged connection) Up to PN40 (with flanged connection)
Electrical Approvals:	ATEX, CSA, FM, IEC
Options:	<ul style="list-style-type: none"> Explosion protection Material Certificate Oxygen Cleaning Customer Specific Tagging Ultra High Temperature Design for RTD's Callendar-Van Dusen Calibration for RTD's

Certified Quality

Registration in programs including ATEX, CSA, FM, and IEC as well as the ISO 9001:2000 quality management system are just part of the WIKA commitment to providing high-quality products. WIKA Quality Assurance Managers guide experienced teams of inspection staff to ensure that every product meets stringent criteria and conform to standards such as ANSI/ASME, ASTM, DIN, EN and BS.



NOTICE

Before operating the product, read the user's manual thoroughly for proper and safe operation.

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Manufactured by



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A Yokogawa Commitment to Industry

vigilance[®]

quality

innovation

foresight

What does Yokogawa **vigilance** mean to the future of your business? **Quality**. Through products that are built from the ground up and tested to the last hour, you're ensured continuous operation and more uptime. **Innovation**. Your business will benefit from new insights and capabilities, bringing true predictability to your process. **Foresight**. As the market changes, you'll have solutions that give you the continuity and flexibility to plan ahead and grow. Our partners know the difference. With Yokogawa, you can count on a lifetime of plant efficiency, from instrumentation to operation support. Let us be vigilant about your business.

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