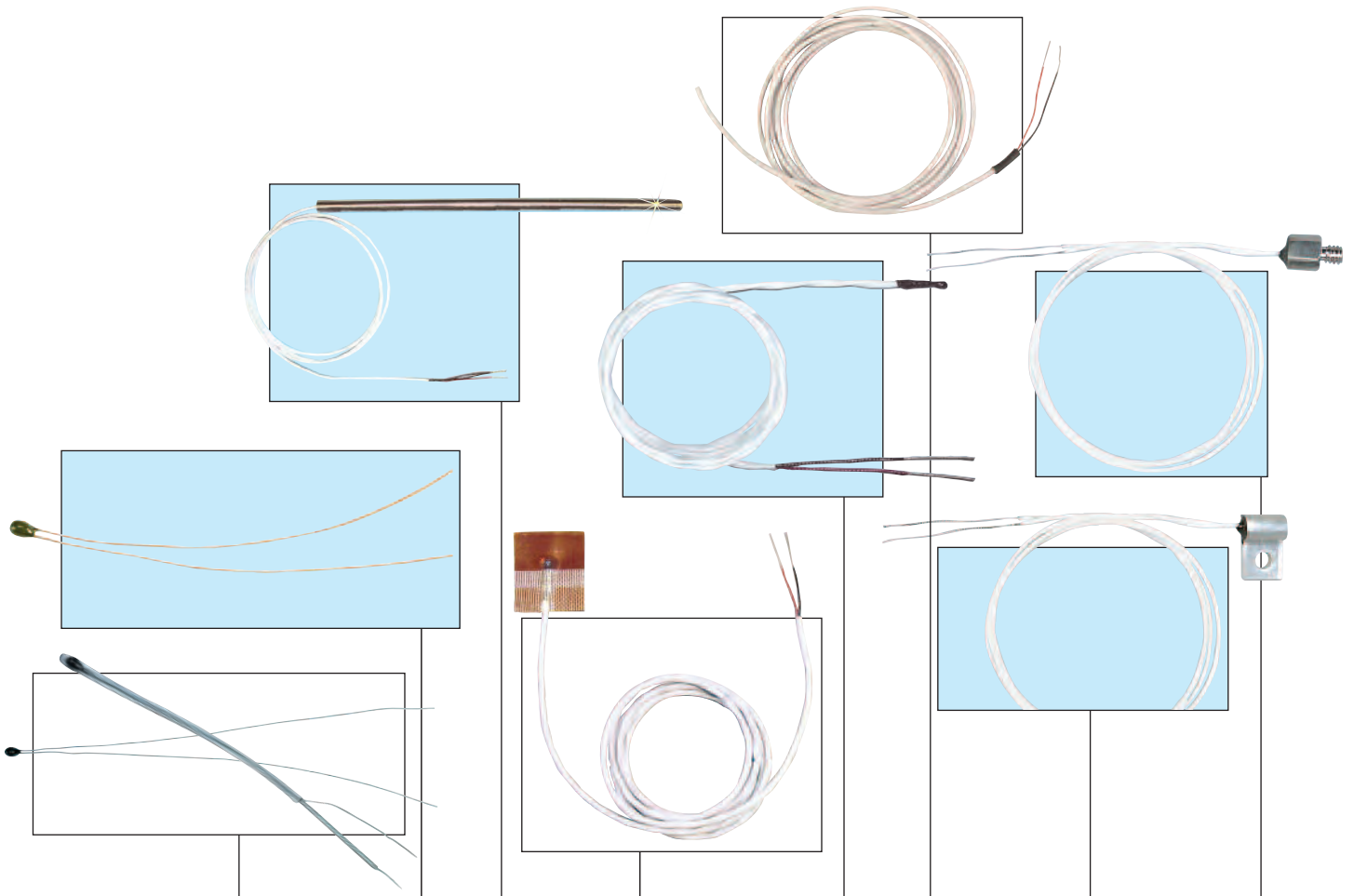
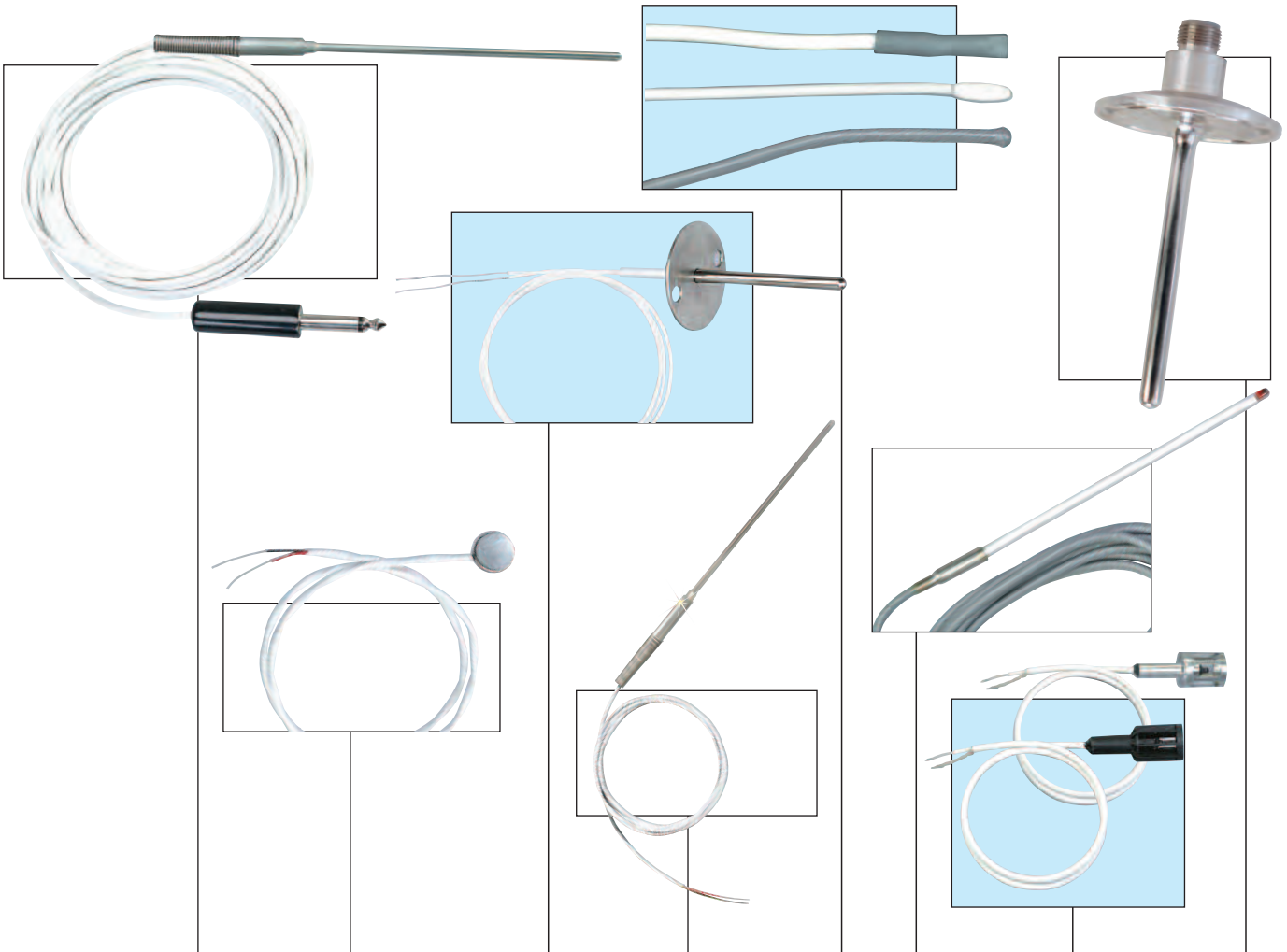


Thermistor Selection Guide

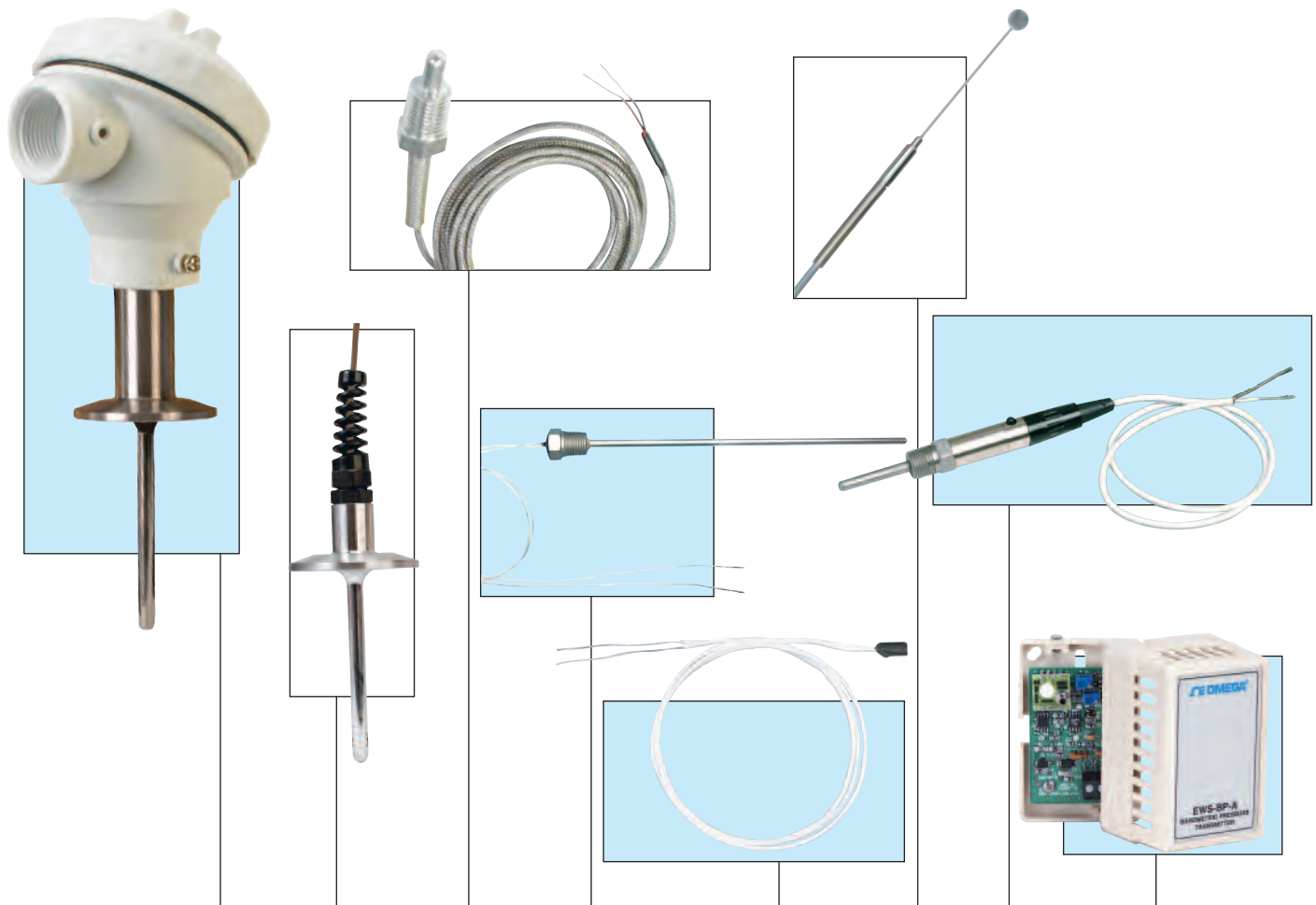


Series No.	44000 Thermistor Elements	55000 Thermistor Elements	TH-10	SA1-TH	TH-(*)	HSTH-(*)	ON-930	ON-950
Page No.	D-9	D-11	D-13	D-14	D-15	D-16	D-17	D-18
Base Price	\$15	\$22	\$35	\$40	\$34	\$45	\$44	\$43
Probe Type	Thermistor Element	Thermistor Element	Straight probe	Self adhesive surface sensor	Thermistor element with cable	Flexible sealed sensor	Surface sensor with mounting hole	Bolt-type sensor
Termination Style	Bare leads and Stripped leads standard	Bare leads	Stripped leads standard	Stripped leads standard	Stripped leads standard	Stripped leads standard	Stripped leads standard	Stripped leads standard
Element	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, and 10000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 5000, 10000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000
Features	Basic beaded thermistor	High temperature thermistor beads	Immersion style, added fittings	Easy self-stick design, removable and replaceable	For use "as-is" or as part of a larger assembly	Sealed, inert design allows for use in corrosive environments	Mounting hole for #4 bolt	Provided with an 8-32 or 3 mm thread for mounting into a threaded hole
Typical Applications	Circuit board, surface mount, OEM use	OEM, circuit board, point temperature measurement	Immersion measurements, building block for more specialized sensors	Surface temperature measurement	Surface sensing, OEM use	Plating baths, chemical processes, in highly humid or small areas	Monitoring or controlling temperature of a structure or component	Monitoring or controlling temperature of a structure or system
Options Available	—	—	Probe lengths, cable lengths, resistances, tolerances, cable terminations	Cable lengths, and terminations, resistances and tolerances	Cable lengths, and terminations, resistances and tolerances	Cable lengths, and terminations, resistances and tolerances	Cable lengths, and terminations, resistances and tolerances	Cable lengths, and terminations, resistances and tolerances

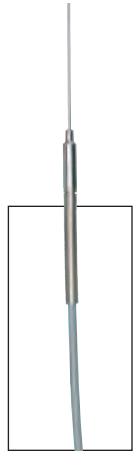
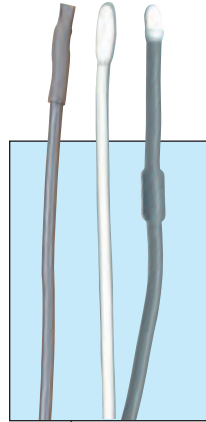
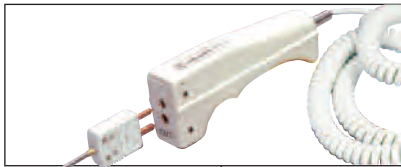
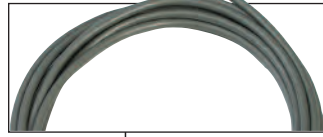
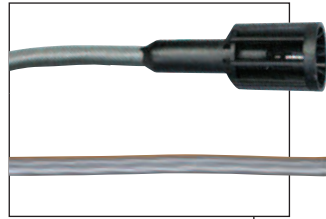
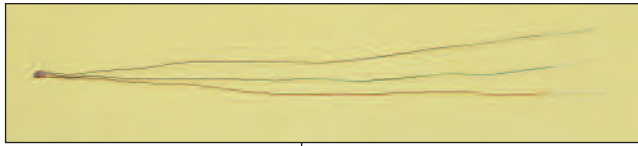


Series No.	ON-403-PP	ON-409/909	ON-960	TJ36-(*)	ON401/ 402/901	ON-404-PP	ON-405/ 406/905/906	THS-S-M12 THS-H-M12
Page No.	D-19	D-20	D-21	D-22	D-23, 24	D-25	D-26	D-27, 28
Base Price	\$70	\$48	\$44	\$59	\$36	\$140	\$50	\$110
Probe Type	Tubular immersion sensor	Round, flat surface sensor	Flanged housing	Immersion probes with transitions	Vinyl tipped wire-type sensors	Tubular glass probe	Air temperature sensor	3-A approved Sanitary
Termination Style	Phone plug	Stripped leads	Stripped leads	Stripped leads standard	Phone plug or stripped leads	Phone plug	Phone plug or strippedlead	M12 connector
Element	Non-linear 2252 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-Linear 2252 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω
Features	Immersion sensor for rugged environments	Flat, round sensor tip allows for adhesive application to flat surfaces	Provided with mounting flange containing two 3.8 mm (0.15") diameter mounting holes	Rugged probe sensor for immersion applications and those requiring mounting fittings	Vinyl tipped sensors with extension cables	Pyrex probe allows for use in chemically and thermally hostile environments	Plastic or metal cage surrounding sensing element	3-A approved clean-in-place mounting flange, standard and heavy duty probes
Typical Applications	Measuring temperature in fluids, mounting using fittings	Skin temp, compressor efficiency studies, manifold or bearing temp	Monitoring air or environmental conditions through a duct or wall	Monitoring fluid temp in baths or processes where the sensor will be in a wetted condition	Short term water, soil and biological measurements	Freeze point measurements, titration studies	Measuring air temperature in laboratories, clean rooms or other spaces	Food, dairy and bio pharmaceutical processes
Options Available	Cable lengths	Cable lengths, and terminations, resistances and tolerances	Cable lengths, and terminations, resistances and tolerances	Cable and probe lengths, dia., terminations, resistances and tolerances	Cable lengths, and terminations, resistances and tolerances	—	Cable lengths, and terminations, resistances and tolerances	Cables, transmitters

Thermistor Selection Guide



Series No.	THS-S-NB9W THS-H-NB9W	THS-S-CB THS-H-CB	TH-NPT	ON-970/ 910	ON-940	ON-408-PP	ON-920TA	EWS
Page No.	D-29, 30	D-31, 32	D-33	D-35	D-36	D-37	D-38	D-39
Base Price	\$95	\$120	\$61	\$55	\$42	\$156	\$83	\$36
Probe Type	3-A approved Sanitary	Sanitary	1/8 or 1/4 NPT pipe mount	Tubular with threaded mounting fitting	Molded tip	Stainless steel hermitically sealed probe	Threaded body probe with detachable cable	Wall-mountable sensor
Termination Style	NB9W or NB15 connection head	Stripped leads	Stripped leads	Stripped leads or phone plug	Stripped leads	Phone plug	Stripped leads on detachable cable	Stripped leads
Element	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252 Ω	Non-linear 2252, 3000, 5000, 10000 and 30000 Ω	Non-linear 2252 Ω
Features	3-A approved clean-in place mounting flange, standard and heavy duty probes	Clean-in place mounting flange, standard and heavy duty probes	Threaded housing for rasy installation into 1/8 or 1/4 NPT port	Immersion probe with a 1/8 NPT threaded fitting	Molded plastic tip for use "as-is" or for OEM use	Flat, round sensor tip with thin cross section	Probe with 1/8 NPT mounting thread and removable cable	Plastic enclosure for mounting directly to a wall or other surface
Typical Applications	Food, dairy and bio pharmaceutical processes	Food, dairy and bio pharmaceutical processes	Pressure vessels, fluid measurements, engine monitoring	Pipes or closed vessels	Use in tight spaces or where fast response times are needed	Oral or skin temperatures, fluid baths, air or surface temperatures	Can be installed directly into vessels where pressure needs to be maintained	Room air temperature measurement
Options Available	Extension wire	—	Cable lengths, and terminations, resistances and tolerances	Cable lengths, and terminations, probe length, resistances and tolerances	Cable lengths, and terminations, resistances and tolerances	—	Cable lengths, and terminations, resistances and tolerances	Extension cables, transmitters



Series No.	HDX-OST/ THX-400	Linear Thermistor Kits & Components	OL-703/710	OL709/729	OL-701/702	OL-705/706	OL-704/ THX-700	OL-708
Page No.	D-40	D-42	D-46, 47	D-48	D-50	D-51	D-52, 54	D-53
Base Price	\$37.50	\$12	\$63	\$63	\$47	\$61	\$70	\$194
Probe Type	Quick disconnect and hand held probes	Dual element thermistor beads, resistor sets and kits	Immersion probes with and without mounting fittings	Surface sensors	Vinyl tipped sensors	Air temperature measurement	Immersion probe assemblies	Surface sensors
Termination Style	Quick disconnect connectors or handle	Flying leads	Stripped leads and phone plugs	Stripped leads or phone plugs	Stripped leads and phone plugs	Stripped leads or phone plugs	Phone plug or quick disconnect connector	Stripped leads or phone plugs
Element	Non-linear 2252 Ω	Non-linear thermistors with linearizing resistors	Non-Linear thermistors with linearizing resistors	Non-Linear thermistors with linearizing resistors	Non-Linear thermistors with linearizing resistors	Non-Linear thermistors with linearizing resistors	Non-linear thermistors with linearizing resistors	Non-Linear thermistors with linearizing resistors
Features	Hand held measurement system/quick disconnect probes	Allows for linearized thermistor readings	Immersion probes can be used "as-is" or with optional fittings	Flat, thin, round sensor tips allow for installation on flat surfaces	Vinyl coated tips allow for use where sensors will be buried or implanted	Plastic or metal age with the element directly exposed to airflow	Pyrex probe allows for use in hostile environments, handheld measurements	Small round thin disc or hermetically sealed steel tip
Typical Applications	Measuring air, liquid, produce, frozen foods or any other hand held measurement	Small temp range measurements, multiplexers, close tolerance measurements	Fluid baths or processes where fluid measurements are needed	Skin temperature, heat loss, compressor efficiency studies	Measuring soil, water or biological measurements	Measuring air temperature in laboratories, clean rooms or other spaces	Freeze point measurements, titration studies, point process measurement	Skin temperature, heat loss, compressor efficiency studies
Options Available	Handle		Cable and probe lengths, terminations	Cable lengths and terminations		Cable lengths, and terminations	Probe length	Cable lengths, and terminations



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