

**HOME
APPLIANCES**



AUTOMOTIVE



MACHINERY



**PLANT &
FACILITY**



OIL & GAS



PETROCHEMICAL



COMPANY PROFILE

BIMETAL THERMOSTAT TECHNOLOGY

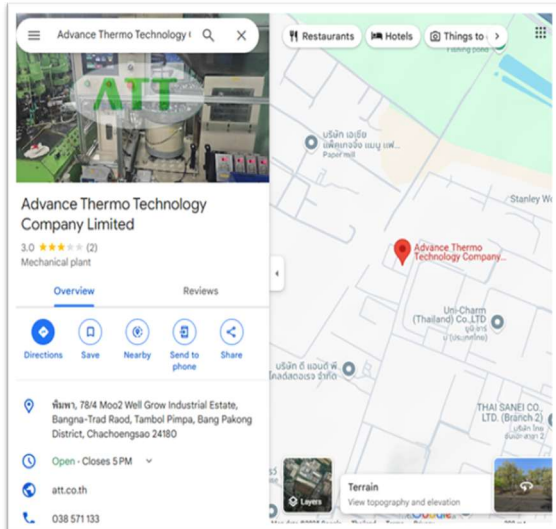


ADVANCE THERMO TECHNOLOGY CO., LTD.

CONTACT & ADDRESS:



LOCATION MAP



ADVANCE THERMO TECHNOLOGY CO., LTD.

TEL: +66 38 522 422-5, +66 38 571 133-4,
+66 82 2182003

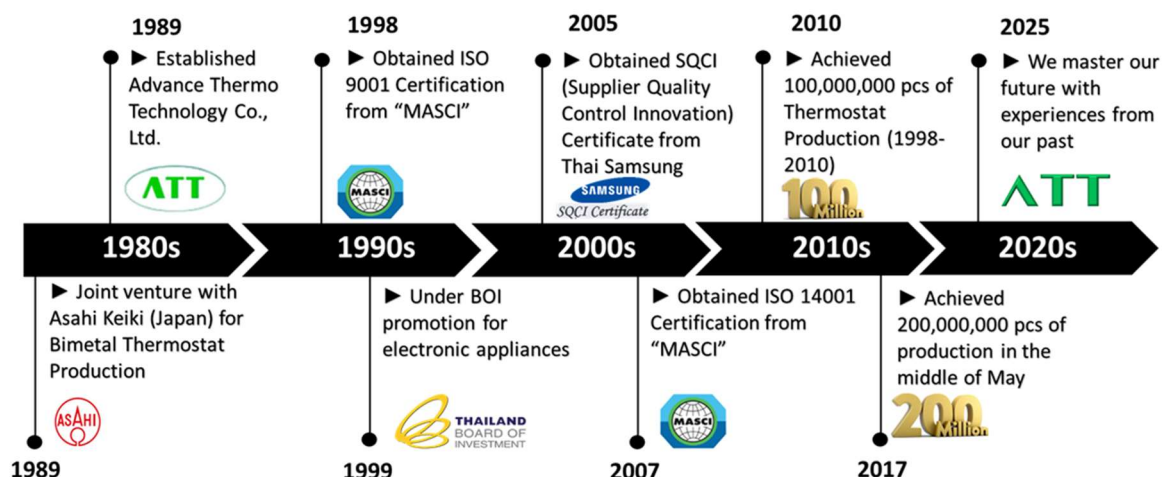
COMPANY WEBSITE : <http://www.att.co.th/>



Wellgrow Industrial Estate
78/4 Moo 2, Bangna-Trad Road, KM.36,
Tambol Pimpa, Amphur Bangpakong,
Chachoengsao , 24130, Thailand.

ADVANCE THERMO TECHNOLOGY CO., LTD.

TIME LINE HISTORY:



COMPANY PROFILE:

Established	• In 1998
Registered Capital	• 132 Million Baht
Plant Area	• Land = 11,200 m ² • Building = 2,460 m ²
Production	• Bimetal Thermostat, Magnet Thermostat, Thermal Protector, Thermistor, Piano Switch
Total Capacity	• 35 million pcs/year
Acquisition Standard	• UL, CUL, UL873, CSA C22.32, TUV, JET, ISO 9001, ISO14001
Executives	• Mr. Saravuth Yingrattanasook, General Manager • Mr. Kiyomi Suzuki, Technical Advisor
Members	• 340 Persons
Working Days	• Monday - Fridays (8:00-17:00) • Saturday (every other week) (8:00-17:00)

ATT PRODUCT:

PRODUCT & APPLICATION



BIMETAL THERMOSTAT



PROBE THERMAL SWITCHES



THERMAL PROTECTOR



THERMAL FUSE



THERMISTOR



OVER HEAT RELAY



DEFROST THERMOSTAT



MAGNET THERMOSTAT



PIANO SWITCH

APPLICATIONS:



PRODUCT
& APPLICATION

- VARIOUS USAGE APPLICATION
- HIGH **RELIABILITY**
- HIGH REPEATABILITY
- MORE THAN **100,000 CYCLES** OPERATION
- **PRECISE CUT-OFF TEMP.**
- MECHANICAL SAFETY REQUIRE FOR SAFETY PURPOSE
- ETC.

HOME APPLIANCES

Oven/Microwave



Water Heater



Electric Fryer



Rice Cooker



Air Conditioner



Tumble Dryer



APPLICATION
BY INDUSTRY





- EXPLOSION PROOF (Ex)
- HARSH ENVIROMENT / EXTREMELY CONDITION
- WELL BUILT (nC-Sealed) DEVICES
- HIGH TEMP. AMBIENT
- SHOCK TOLERATION
- OUTER SHEATH PROVIDE PROTECTION AGAINST ENVIRONMENTAL FACTORS (MOISTURE, PHYSICAL DAMAGE, ETC.)
- HIGH PRESSURE ENVIRONMENT

OIL & GAS

APPLICATION
BY INDUSTRY

ON SHORE/OFF SHORE



Refinery & Petrochemical



Industrial Liquid/Gas Filtration



Air/Gas Compressors



Hoist & Crane Motor



Irrigation Pumping System





- HARSH ENVIROMENT
- WATER PROOF (IPX7)
- TEMP.-SHOCK TOLERATION (+/-)
- ENVIRONMENT PROOF
- OUTER SHEATH PROVIDE PROTECTION AGAINST ENVIRONMENTAL FACTORS (MOISTURE, PHYSICAL DAMAGE, ETC.)
- HIGH PRESSURE ENVIRONMENT

AUTOMOTIVE

Combustion Engines



Excavator Temp. sensor



Coolant Temp.



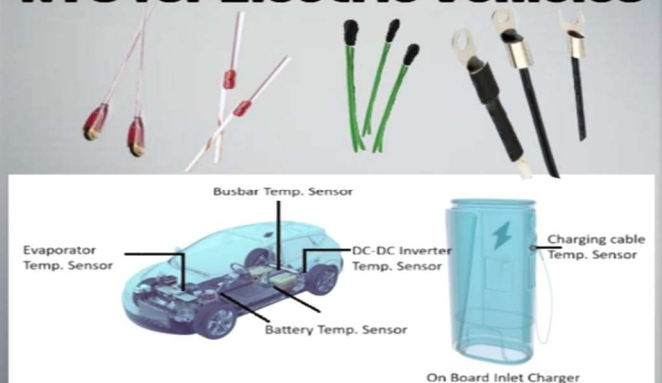
Car Radiator



AC Compressors



NTC for Electric Vehicles



APPLICATION
BY INDUSTRY





EXTREMELY CONDITION

INDUSTRIAL GRADE

HIGH TEMP. AMBIENT

SHOCK TEMP. TOLERATION

OUTER SHEATH PROVIDE

PROTECTION AGAINST

ENVIRONMENTAL FACTORS (OIL)

HIGH PRESSURE ENVIRONMENT

MACHINERY

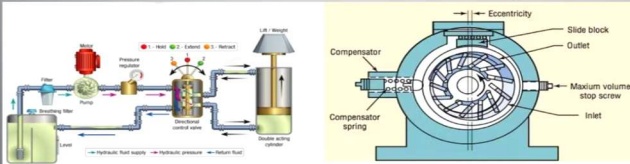
Plastic Injection



Industrial Welding MC



Hydraulic System



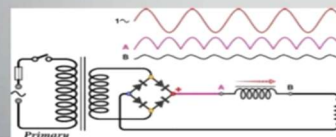
Industrial Water Distiller



Generator



AC/DC Power Converter



**APPLICATION
BY INDUSTRY**



PLANT & FACILITY USAGE
DURABLE USAGE
HARSH ENVIRONMENT / EXTREME CONDITION
VARIOUS FLUCTUATION CONDITION
WATER PROOF (IPX7)
SHOCK TOLERATION (+/-) ENVIRONMENT
PROOF
OUTER SHEATH PROVIDE PROTECTION
AGAINST ENVIRONMENTAL FACTORS (OIL)
HIGH PRESSURE ENVIRONMENT

PLANT & FACILITY

Motor & Generator



Condensor Unit-CDUs



Humidification / Dehumidification



Irrigation Pumping System



Water Distiller & Purification



Compressors



APPLICATION
BY INDUSTRY



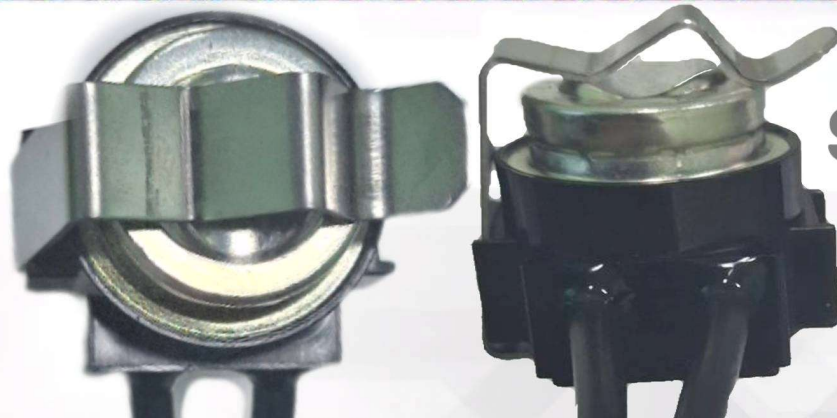


S101 SERIES

SNAP-ACTION BIMETAL THERMOSTAT (SINGLE ACTION)

SPECIFICATION:

½" AUTOMATIC RESET BIMETAL THERMOSTAT	
APPLICATION	AVAILABLE FOR OVEN, MICROWAVE OVEN, ELECTRIC JAR POT, RAPID WATER-HEATERS, REFRIGERATOR, COFFEE MAKERS, COPYING MACHINES, VACUUM CLEANER, WASHING MACHINE AND WATER PUMP.
ELECTRICAL RATING (RESISTIVE LOAD)	125 VAC / 15A , 250VAC/8A, 250 VAC / 10A , 250 VAC / 16A, 250 VAC / 17A, 250 VAC / 25A
OPERATING TEMP RANGE.	- 5 'C to 150 'C (UPON CUSTOMER REQUIREMENT)
DIFFERENTIAL, BETWEEN OPERATION AND RETURN TEMP	8 'C OR MORE (AUTOMATIC RESET) RETURN TEMP LESS THAN -35 'C (SINGLE OPERATION)
TEMP TOLERANCE	OPERATING TEMP. +,- 4 'C / RETURN TEMP. +,- 7 'C (STANDARD)
CIRCUIT RESISTANCE (INITIAL VALUE)	50 m.-Ohms or LESS.
INSULATION RESISTANCE.	100 M-Ohms or MORE (WITH 500 VDC MEGGER)
DIELECTRIC STRENGTH.	1500 VAC / MINUTE OR 1800 VAC / SEC.
HEAT DURABILITY	150 'C
SWITCHING DURABILITY	125VAC/15A =100,000 Cycle 250VAC/10A =100,000 Cycle 250VAC/16A = 50,000 Cycle 250VAC/17A = 50,000 Cycle 250VAC/25A = 10,000 Cycle TÜV 125VAC/15A =100,000 Cycle 250VAC/8A =100,000 Cycle UL
TRACKING RESISTANCE	S101 PHENOLIC CASE SHALL BE FOLLOWED PTI VALUE MORE THAN 175V S101-2 MELAMINE PHENOLIC CASE SHALL BE FOLLOWED PTI VALUE MORE THAN 250V
STANDARD COMPLIANTS	    
ADDITIONAL COMPLIANTS NEEDS	AVAILABLE UPON REQUEST.
* LOW TOLERANCE LESS THAN STANDARD TYPE IS ALSO AVAILABLE. * ELECTRICAL RATING BY VOLTAGE DC IS ALSO AVAILABLE.	



S101 EXP-SERIES

EXPLOSION PROOF THERMOSTAT

SPECIFICATION:

½" AUTOMATIC RESET EXPLOSION PROOF BIMETAL THERMOSTAT	
APPLICATION	AVAILABLE FOR HASH ENVIRONMENT COMPRESSORS, COMERCIAL FOOD EQUIPMENT, AUTOMOTIVE, WASHING MACHINES, IRRIGATION PUMPING SYSTEM, ETC.
ELECTRICAL RATING (RESISTIVE LOAD)	125 VAC / 15A , 250VAC/8A, 250 VAC / 10A , 250 VAC / 16A, 250 VAC / 17A, 250 VAC / 25A
OPERATING TEMP RANGE.	- 5 'C to 150 'C (UPON CUSTOMER REQUIREMENT)
DIFFERENTIAL, BETWEEN OPERATION AND RETURN TEMP	8 'C OR MORE (AUTOMATIC RESET) RETURN TEMP LESS THAN -35 'C (SINGLE OPERATION)
TEMP TOLERANCE	OPERATING TEMP. +,- 4 'C / RETURN TEMP. +,- 7 'C (STANDARD)
CIRCUIT RESISTANCE (INITIAL VALUE)	50 m.-Ohms or LESS.
INSULATION RESISTANCE.	100 M-Ohms or MORE (WITH 500 VDC MEGGER)
DIELECTRIC STRENGTH.	1500 VAC / MINUTE OR 1800 VAC / SEC.
HEAT DURABILITY	150 'C
SWITCHING DURABILITY	125VAC/15A =100,000 Cycle 250VAC/10A =100,000 Cycle 250VAC/16A = 50,000 Cycle 250VAC/17A = 50,000 Cycle 250VAC/25A = 10,000 Cycle TÜV 125VAC/15A =100,000 Cycle 250VAC/8A =100,000 Cycle UL
TRACKING RESISTANCE	S101 PHENOLIC CASE SHALL BE FOLLOWED PTI VALUE MORE THAN 175V
STANDARD COMPLIANTS	    
ADDITIONAL COMPLIANTS NEEDS	   AVAILABLE UPON REQUEST.
* LOW TOLERANCE LESS THAN STANDARD TYPE IS ALSO AVAILABLE. * ALTERNATING TYPE OF ELECTRIC WIRE ARE ALSO AVAILABLE * ALTERNATING CONSTRUCTION IS ALSO AVAILABLE (PLEASE CONTACT US) * ELECTRICAL RATING BY VOLTAGE DC IS ALSO AVAILABLE.	



S107 EXP SERIES

EXPLOSION PROOF THERMAL PROTECTOR

SPECIFICATION

AUTOMATIC RESET EXPLOSION PROOF THERMAL PROTECTOR	
SPECIFIC FEATHERS	nC DEVICE FEATHERS: - HARSH ENVIRONMENT APPLICABLE - HIGH TEMP & HIGH HUMIDITY RESISTANCE - HEAT RESISTANCE AND COLD RESISTANCE - COMPLETELY SEALED DEVICE - WATER PROOF GRADE IP-X7 - FIRE RESISTANCE MATERIAL (INCLUDE CABLING)
APPLICATION	AVAILABLE FOR MOTOR PROTECTION IN HAZARDOUS AREA, OIL&GAS (ON-SHORE/OFF-SHORE), PETROCHEMICAL INDUSTRIAL, REFINERY PROCESS, GRAIN PROCESS, STORAGE FACILITY, HVAC & PUBLIC COMMUNITY, ETC.
ELECTRICAL RATING (RESISTIVE LOAD)	115 VAC / 22A , 277 VAC / 8A.
OPERATING TEMP RANGE.	65°C-160 °C
CIRCUIT RESISTANCE (INITIAL VALUE)	50 mΩ or LESS.
INSULATION RESISTANCE.	100 MΩ or MORE (WITH 500 VDC MEGGER)
DIELECTRIC STRENGTH.	1500 VAC / MINUTE OR 1800 VAC / SEC.
SWITCHING DURABILITY	5,000 CYCLES (AT RATED LOAD)
STANDARD COMPLIANTS	    
ADDITIONAL COMPLIANTS NEEDS	   AVAILABLE UPON REQUEST.
* ELECTRICAL RATING BY VOLTAGE DC IS ALSO AVAILABLE * ALTERNATING TYPE OF ELECTRIC WIRE ARE ALSO AVAILABLE * ALTERNATING CONSTRUCTION IS ALSO AVAILABLE (PLEASE CONTACT US)	

PRODUCT DATA
SHEET





SPECIFICATION:

NTC THERMISTOR (NEGATIVE THERMAL COEFFICIENT)	
APPLICATION	WATER HEATER , REFRIGERATOR, AIR CONDITIONER, ELECTRIC POT
RESISTANCE VALUE / B CONSTANT	A) R(0) = 6.4 KΩ ±1.5% , B VALUE (0/-18) = 3814K ±2% (DIODE) B) R(-20) = 19.3 KΩ ±2% , B VALUE (25/50) = 3850K ±1.5% (DIODE) C) R(3) = 5.6 KΩ ±2.5% , B VALUE (3/50) = 3850K ±1.5% (DIODE) D) R(25) = 10 KΩ ±2% , B VALUE (25/50) = 3950K ±2%(EPOXY CHIP) E) R(10) = 3.89 KΩ ±2% , B VALUE (-20/10) = 3819K ±2% (EPOXY CHIP) F) R(25) = 10 KΩ ±1% , B VALUE (25/85) = 3435K ±1% (EPOXY CHIP) G) R(25) = 6.8 KΩ ±1% , B(25/85) = 3950K ±1% (EPOXY CHIP) H) R(25) = 10 KΩ ±1% , B VALUE (25/85) = 3435K ±1% (EPOXY CHIP) I) R(25) = 40 KΩ ±3% , B VALUE (25/50) = 3530K ±2% (GLASS CHIP) E) R(25) = 10 KΩ ±2% , B VALUE (25/85) = 3480K ±1% (GLASS CHIP)
THERMAL TIME CONSTANT (IN STILL OIL)	(A,B,C,D,E,F,G,H) = LESS THAN 20 SEC (I,E) = LESS THAN 3 SEC
INSULATION RESISTANCE	100 MΩ or MORE (WITH 500 VDC MEGGER)
DIELECTRIC STRENGTH	1500 VAC / MINUTE OR 1800 VAC / SEC.
HEAT DURABILITY	80 °C OR MORE (FOR ABS BODY) 105 °C OR MORE (FOR SUS BODY)
STANDARD COMPLIANTS	   
ADDITIONAL COMPLIANTS NEEDS	AVAILABLE UPON REQUEST.

PRODUCT DATA SHEET





S400 SERIES

3/4" SNAP ACTION BIMETAL THERMOSTAT

SPECIFICATION:

3/4" AUTOMATIC RESET BIMETAL THERMOSTAT	
APPLICATION	3/4" SINGLE ACTION THERMOSTAT FOR OVEN, MICROWAVE OVEN, ELECTRIC JAR POT, RAPID WATER-HEATERS, REFRIGERATOR, COFFEE MAKERS, COPYING MACHINES, VACUUM CLEANER, WASHING MACHINE AND WATER PUMP.
ELECTRICAL RATING (RESISTIVE LOAD)	125 VAC / 15A , 250VAC/8A, 250 VAC / 10A , 250 VAC / 16A, 250 VAC / 17A, 250 VAC / 25A, , 250 VAC / 45A
OPERATING TEMP RANGE.	- 5 'C to 150 'C (UPON CUSTOMER REQUIREMENT)
DIFFERENTIAL, BETWEEN OPERATION AND RETURN TEMP	8 'C OR MORE (AUTOMATIC RESET) RETURN TEMP LESS THAN -35 'C (SINGLE OPERATION)
TEMP TOLERANCE	OPERATING TEMP. +,- 4 'C / RETURN TEMP. +,- 7 'C (STANDARD)
CIRCUIT RESISTANCE (INITIAL VALUE)	50 m.-Ohms or LESS.
INSULATION RESISTANCE.	100 M-Ohms or MORE (WITH 500 VDC MEGGER)
DIELECTRIC STRENGTH.	1500 VAC / MINUTE OR 1800 VAC / SEC.
HEAT DURABILITY	150 'C
SWITCHING DURABILITY	125VAC/15A =100,000 Cycle 250VAC/10A =100,000 Cycle 250VAC/16A = 10,000 Cycle 250VAC/25A = 10,000 Cycle 250VAC/45A = 10,000 Cycle
TRACKING RESISTANCE	S401 PHENOLIC CASE SHALL BE FOLLOWED PTI VALUE MORE THAN 175V S401-2, MELAMINE PHENOLIC CASE SHALL BE FOLLOWED PTI VALUE MORE THAN 250V
STANDARD COMPLIANTS	    
ADDITIONAL COMPLIANTS NEEDS	AVAILABLE UPON REQUEST.
* LOW TOLERANCE LESS THAN STANDARD TYPE IS ALSO AVAILABLE. * ELECTRICAL RATING BY VOLTAGE DC IS ALSO AVAILABLE.	

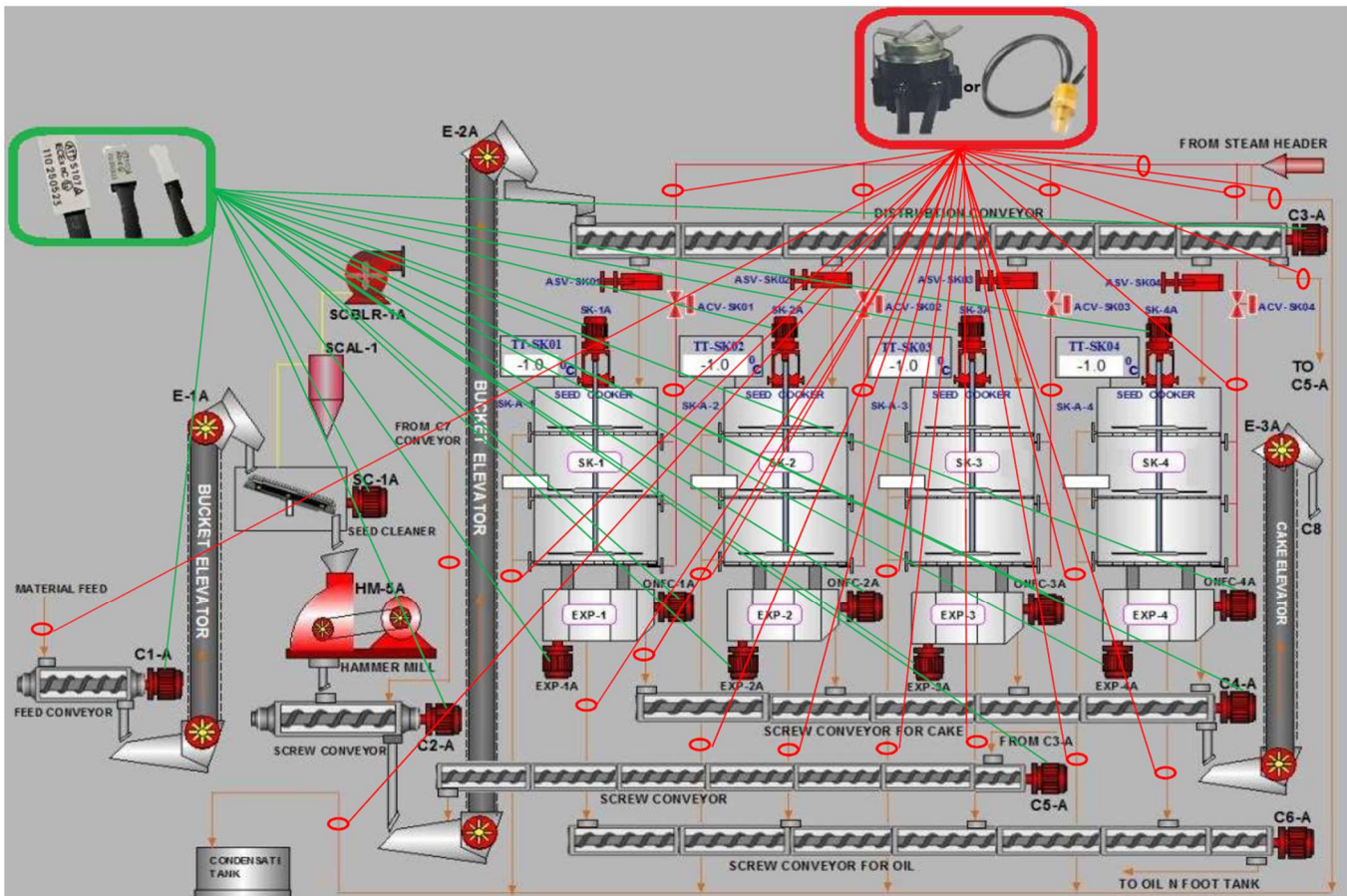
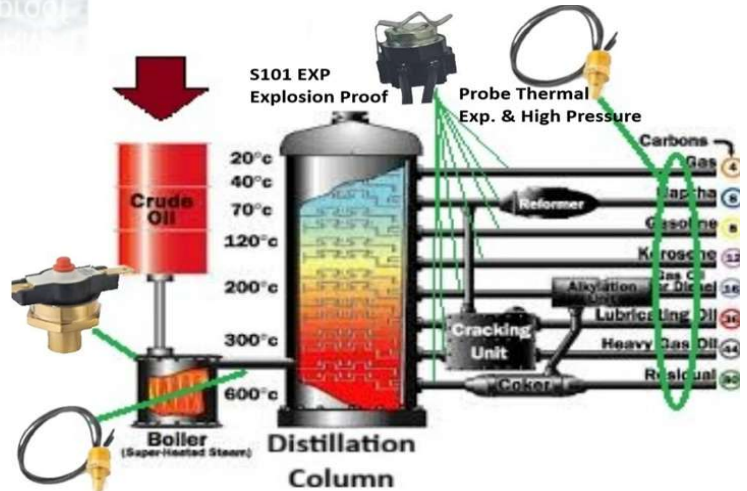
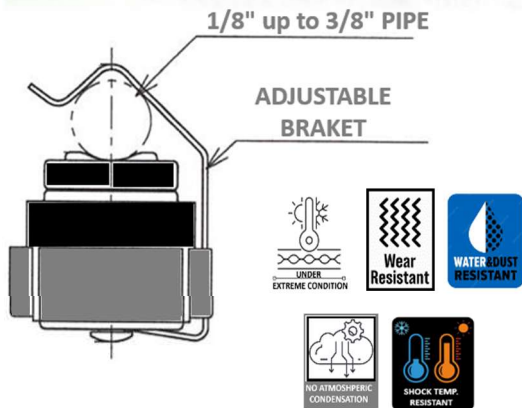
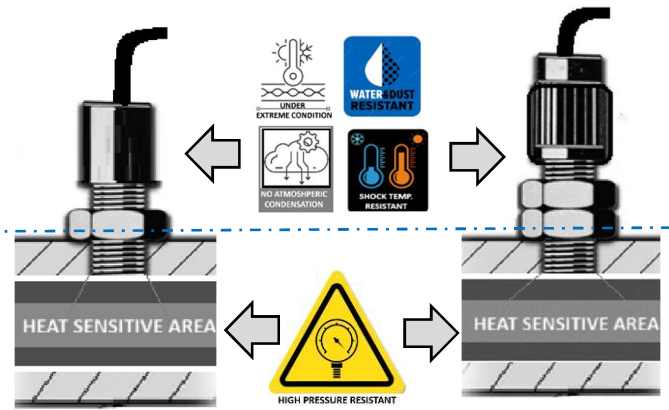


PROBE SERIES

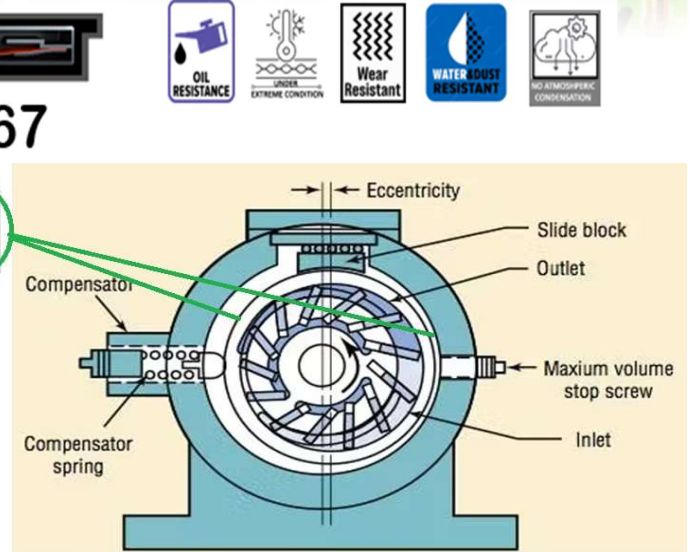
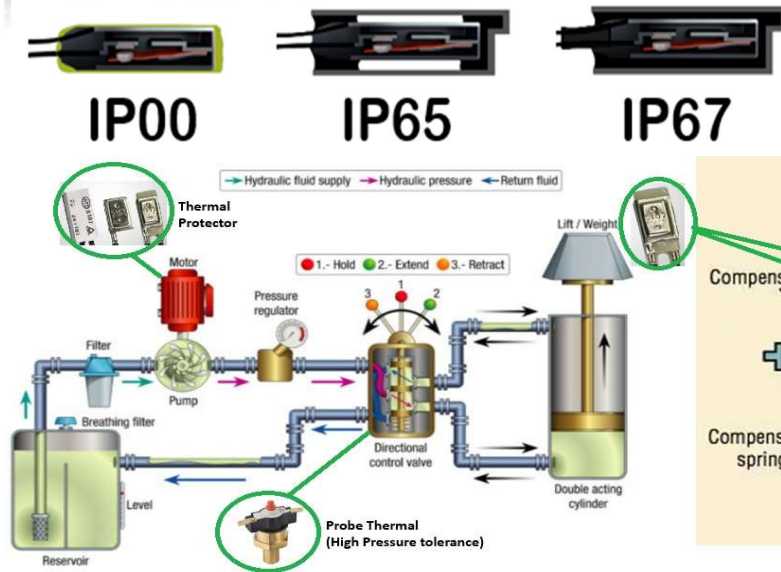
PROBE THERMAL SWITCH THERMOSTAT

SPECIFICATION:

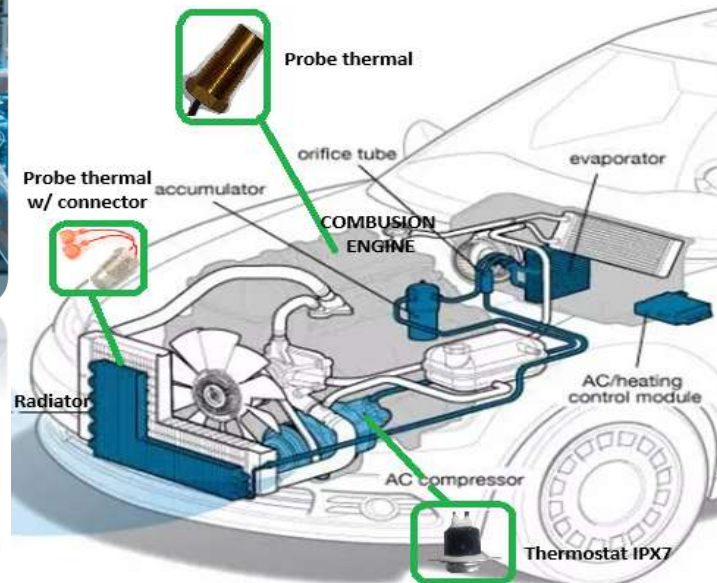
PROBE THERMAL SWITCHES (SNAP ACTION/CREEP ACTION)	
APPLICATION	nC SEALED DEVICE AVAILABLE FOR BOTH SNAP ACTION AND CREEP ACTION. USED FOR GENERATORS, PART WASHERS, COMPRESSORS, INTERNAL COMBUSTION ENGINES, PLASTIC INJECTION MACHINES, AIR/GAS COMPRESSORS, HYDRAULIC SYSTEMS, ETC.
ELECTRICAL RATING (RESISTIVE LOAD)	125 VAC / 15A , 250VAC/8A, 250 VAC / 10A , 250 VAC / 16A, 250 VAC / 17A, 250 VAC / 25A, , 250 VAC / 45A
OPERATING TEMP RANGE.	- 5 'C to 150 'C (UPON CUSTOMER REQUIREMENT)
DIFFERENTIAL, BETWEEN OPERATION AND RETURN TEMP	8 'C OR MORE (AUTOMATIC RESET) RETURN TEMP LESS THAN - 35 'C (SINGLE OPERATION)
TEMP TOLERANCE	OPERATING TEMP. +, - 4 'C / RETURN TEMP. +, - 7 'C (STANDARD)
CIRCUIT RESISTANCE (INITIAL VALUE)	50 m.-Ohms or LESS.
INSULATION RESISTANCE.	100 M-Ohms or MORE (WITH 500 VDC MEGGER)
DIELECTRIC STRENGTH.	1500 VAC / MINUTE OR 1800 VAC / SEC.
HEAT DURABILITY	150 'C
SWITCHING DURABILITY	125VAC/15A =100,000 Cycle 250VAC/10A =100,000 Cycle 250VAC/16A = 10,000 Cycle 250VAC/25A = 10,000 Cycle 250VAC/45A = 10,000 Cycle
TRACKING RESISTANCE	S401, S402 PHENOLIC CASE SHALL BE FOLLOWED PTI VALUE MORE THAN 175V S401-2, S402-2 MELAMINE PHENOLIC CASE SHALL BE FOLLOWED PTI VALUE MORE THAN 250V
STANDARD COMPLIANTS	    
ADDITIONAL COMPLIANTS NEEDS	    AVAILABLE UPON REQUEST.
* LOW TOLERANCE LESS THAN STANDARD TYPE IS ALSO AVAILABLE. * ALTERNATING CONSTRUCTION IS ALSO AVAILABLE.	



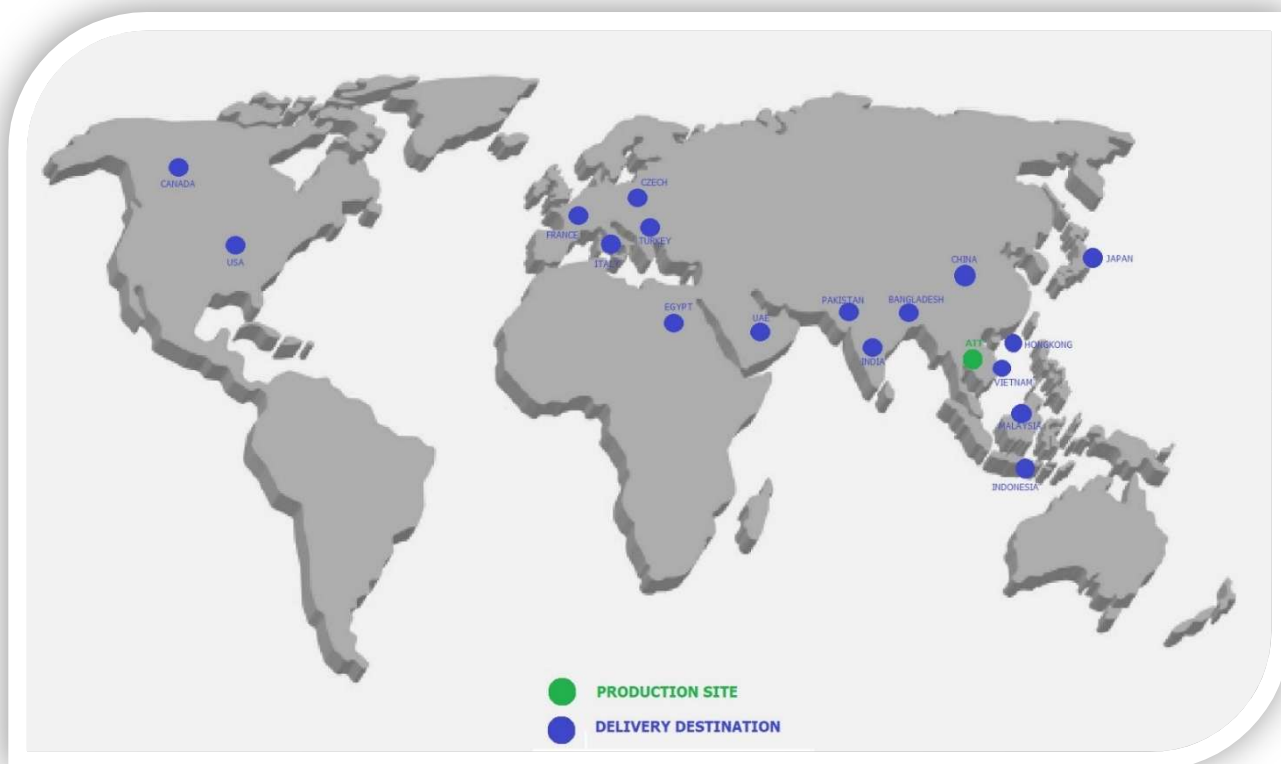
CAPTURE
FEATHERS



Hydraulic System



DELIVERY & DESTINATIONS:



PRODUCTION SITE:

Advance Thermo Technology Co.,Ltd.

Wellgrow Industrial Estate,
78/4 Moo 2, Bangna-Trad Road, KM.36, Pimpa,
Bangpakong, Chachoengsao 24130, Thailand.



DELIVERY DESTINATION:

Thailand – Bangladesh - China - Czech
Canada - Egypt - France - Hong Kong
Italy – India – Indonesia - Japan - Malaysia
Pakistan – Turkey - USA – Vietnam



**DELIVERY
& DESTINATION**



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“Not only your supplier, we want to grow together with you
as long-term business partner”