



CERGAS PROSES SDN BHD

FLOW

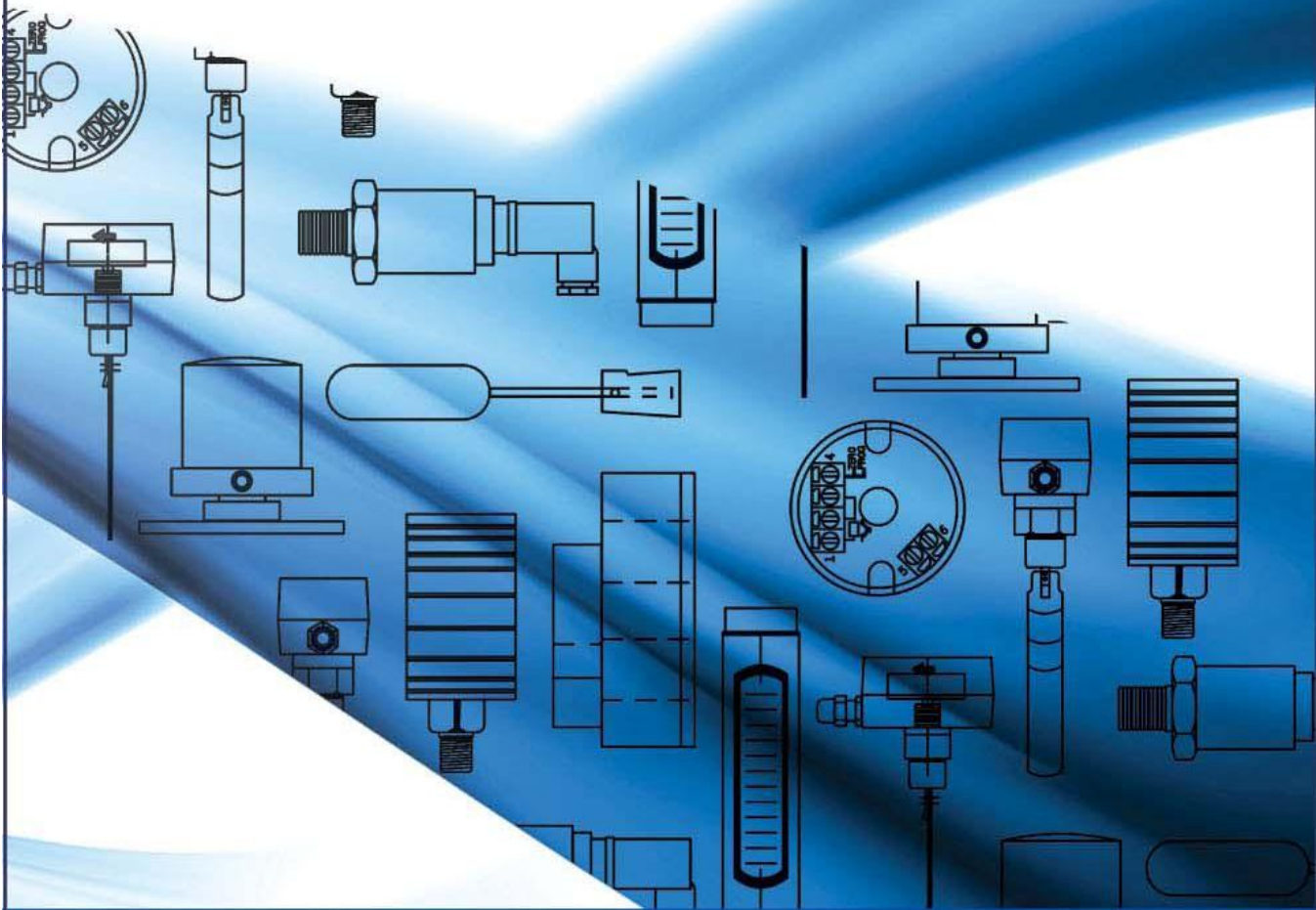
LEVEL

TEMPERATURE

PRESSURE

SYSTEM

VALVE



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TEMPERATURE

SOLAR DIGITAL BI-METAL THERMOMETER

Technical Data

Dial(mm) : 75
Accuracy : 1.0%
Range : -50 to 180°C
Wetted parts : Stainless Steel
Stem length : 100mm to 500mm
Connection : 1/2", 1/4" NPT, BSP
Model : Recommended THS



SOLAR-POWERED DIGITAL THERMOMETER

Technical Data

Dial(mm): 50, 63
Accuracy : 0.5%
Range : -50 to 150°C
Wetted Parts : Stainless Steel
Stem Length : 100mm
Connection : Plain, 1/2", 1/4" NPT / BSP
Model : Recommended TSP



SOLAR DIGITAL THERMOMETER WITH INTEGRAL RTD OR TRANSMITTER

Technical Data

Dial(mm): 75
Accuracy : 1.0%
Range : -50 to 180°C
Wetted Parts : Stainless Steel
Stem Length : 65mm to 500mm
Connection : 1/2", 1/4" NPT, BSP
Model : Recommended TLS



INDUSTRIAL 9IT THERMOMETER

Technical Data

Dial(mm): 228
Accuracy : 1.0%
Range : -40 ~ 40°C to 0 ~ 150°C
Wetted Parts : 316 stainless steel, Brass,
 80mm or 150mm stem length
Model : Recommended TIM



STRAP-ON THERMOMETER

Technical Data

Dial(mm): 63
Accuracy : 2.0%
Range : -40 to 40°C, 0 to 115°C, 0 to 200°C
Wetted Parts : Strap-on design with steel spring
Model : Recommended TCT



4-20mA CURRENT LOOP USB DATA LOGGER

Technical Data

Features :

- 4-20mA current loop measurement range
- Logging rates between 1s and 12 hr
- Stores 32,510 readings
- Connection via two screw terminals
- USB interface for set-up and data download
- User-programmable alarm thresholds
- Status indication via red and green LEDs
- Supplied with replaceable internal lithium battery and Windows control software

Measurement Range : Minimum : 4 ; Maximum : 20 ; Unit : mA d.c.
Internal Resolution : Typical : 0.05 ; Unit : mA d.c.
Accuracy : Typical : *1 ; Unit : % ±1count
Logging Rate : Minimum : Every 1s ; Maximum : Every 12 hr
Operating Temperature Range : Minimum : -35 (-31) ;
 Maximum : +80 (+178) ; Unit : °C (°F)
1/2AA 3.6V Lithium Battery Life : Typical : 1* ; Unit : Year
Model : Recommended EL-USB 4





TEMPERATURE

BI - METAL THERMOMETERS

Technical Data

Material of case & Cover : SS304, SS316 available
Material of Stem : 316 stainless steel
Lens : Glass, safety glass available
Housing Enclosure : IP65, liquid filled available
Dial Size : Ø3", 4", 5" available
Range Limit : -50 to 600°C
Stem Dimensions : Ø4, 6, 8, 10mm available
Stem Length Limit : 65~1000mm
External Zero Adjustable
Accuracy : ±1% (FS)
Process Connection : 1/2" NPT standard, others available
Over Range Protection : 130% FS
Model : Recommended AY/ AJ/ AY-QS Series



FILLED TYPE THERMOMETERS W/MICRO SWITCH

Technical Data

Directing Mounting
Liquid Gas Filled Available
Dial Size : Ø100, Ø150 available
Material Of Case & Cover : 316 stainless steel
Material Of Stem : 316 stainless steel
Lens : Glass, Safety glass available
Housing Enclosure : IP65, liquid filled available
Range Limit : -50°C to 600°C
Stem Dimensions : Ø 6, 8, 10, 12mm available
Stem Length Limit : 65~1000mm, option available
Inner Zero Adjustable
Accuracy : ±1% F.S.; Gauge indication : ±2% F.S with switch
Process Connection : 1/2" NPT standard, other available
Over Range Protection : 130% F.S
Switch Form : One setting point SPDT x1 or two setting point SPDT x 2
Set Point : Full scale range available



Switch Data :

	Ac Load	Dc Load
Nominal Operating Voltage	250 VAC max.	28 VDC max.
Current	5A max.	5A max. (ohmic load) 3A max. (inductive load)
Contact Material	Pure silver 999.9	Pure silver 999.
Ambient Temperature	-20°C~+70°C	-20°C~+70°C

Model : Recommended SHE4/ SHE4-QS [Ø100], SHE6/ SHE6-QS [Ø150]

FILLED TYPE THERMOMETERS

Technical Data

Direct Mounting
Liquid Gas Filled Available
Dial Size : Ø 100, Ø150 available
Material of Case & Cover : 316 stainless steel
Material of Stem : 316 stainless steel
Lens : Glass, safety glass available
Housing Enclosure : IP65, liquid filled available
Range Limit : -50 to 600°C
Stem Dimensions : Ø 6, 8, 10, 12 mm available
Stem Length Limit : 65~1000mm, option available
Inner Zero Adjustable
Accuracy : ±1% (FS)
Process Connection : 1/2" NPT standard, other available
Over Range Protection : 130% FS
Contact Type Limit Switch : available 7 function for usage
Model : Recommended SH4/SH4-QS [Ø100] & SH6/SH6-QS [Ø150]



TEMPERATURE SWITCH WEATHER PROOF

Technical Data

Type : Liquid Filled Type, Gas Filled Type
Temperature range : Liquid Filled Type -70~+400°C
 Gas Filled Type -200~650°C
Remote Capillary Length : Liquid Filled Type 20 M max.
 Gas Filled Type 30 M max.
Electric Contact : 1~2 Contacts
Microswitch Type S.P.D.T. : Nominal operating voltage : 250 VAC max.
 Current : 5A max.
Alternatively Switch Data : Nominal operating voltage : 28 VDC max.
 Current : 5A max. (ohmic load) ; 3A max. (inductive load)
 Contact material : Pure 999.9 Gold Plated
 Ambient Temperature : -20°C~+70°C
Weather Proof Class : NEMA 4, 4X, IP65
Material of Case & Cover : Aluminium alloy die-casting
Switch Acting Differential : ±1.6%~3% of F.S.
Contact Adjusting Method : Internal adjusting method
Conduit Connection : 1/2" NPT (F)
Process Connection : 1/2" or 3/4" NPT Male
Sensor material : Wetted parts are all in SS316
Model : Recommended ETS3000W-Series



FILLED TYPE THERMOMETERS

Technical Data

Remote Mounting Type
Material of Case & Cover :
 316 stainless steel, option available
Material of Sensor Bulb Capillary Tube, Flex Tube :
 SS304, SS316, and others available
Lens : Glass, safety glass available
Temp Range : -200~+650°C available
Housing Enclosure : IP65, liquid filled available
Accuracy : ±1% (FS)
Capillary Tube Length Limited : liquid filled type : 10M
 Gas filled type max. 50M option available
Stem Dimension : Ø 6, 8, 10, 12mm available
Process Connection : 1/2" NPT standard, others available
Over Range Protection : 130% FS
Contact Type Limit Switch : available, 7 function for usage
Model : Recommended SM4/SA4 [Ø100] & SM6/SA6 [Ø150]



TEMPERATURE SWITCH EXPLOSION PROOF

Technical Data

Type : Liquid Filled Type, Gas Filled Type
Model : Liquid Filled Type ETS5000-L
 Gas Filled Type ETS5000-G
Temperature Range : Liquid Filled Type -70~+400°C
 Gas Filled Type -200~650°C
Remote Capillary Length : Liquid Filled Type 30M
 Gas Filled Type 50M
Electric Contact : 1~2 contacts
Microswitch Type S.P.D.T. : AC 125/250V 10A, DC 125/250V 0.5/0.25A
Explosion Proof Class : Class I, Gr. B, C & D; Class II, Gr. E, F & G NEMA 4, 7, 9
Material of Case & Cover : Aluminium alloy die-casting blue color
Indication Accuracy : Within ±1 graduation
Switch Acting Differential : 4~10% of F.S.
Contact Adjusting Method : Internal adjusting method
Conduit Connection : 3/4" NPT Male
Process Connection : 1/2" or 3/4" NPT Male
Sensor Material : Wetted parts are all in SS316
Model : Recommended ETS5000





TEMPERATURE

PT COMPACT

Technical Data

Measuring Range : -200~+600°C

Typical Application :

- Machine construction
- Heating and cooling circuits, air condition technology
- Plant construction
- Environmental engineering

Features :

- Compact dimensions
- Cost-effective
- Short delivery times
- Easy handling
- Ease of servicing
- Option : Integrated transmitter with 4~20 mA or 0~10V output signal



CABLE SENSORS

Technical Data

Measuring Range : -200~+1100°C

Typical Application :

- Machine construction
- Environmental engineering
- Tank and pipeline construction
- Apparatus and furnace engineering

Features :

- Broad standard range of products
- Available as thermoelements or resistance thermometers
- Rigid or flexible thermowell
- Customized solutions
- Short delivery times



TEMPERATURE SWITCHES WITH DISPLAY

Technical Data

Measuring Range : -200~+600°C

Typical Application :

- Machine construction
- Heating and cooling circuits, air condition technology
- Plant construction
- Environmental engineering

Features :

- Two switching outputs or one switching output and one analogue output
- Programmable switching outputs
- Hysteresis 0.5~100% of the span
- Programmable output signal 4~20 mA
- Four-digit LED
- Easy 2-key programming
- Insertion lengths starting from 25mm
- Cost-effective
- Short response time



BIMETALLIC TEMPERATURE SWITCHES

Technical Data

Fixed Switching Points : -40°C~110°C

Typical Application :

- Refrigeration and heating circuits in plants, compressors and engines

Features :

- High breaking capacity
- Long-term stability
- Protection class IP 65
- Brass housing
- Ease of installation
- Cost-effective



NONCONTACT INFRARED THERMOMETER

Technical Data

Temperature Range : 0 to 500°F (-18 to 260°C)

Accuracy : ±2% of reading or 3.5°F (±2°C) whichever is greater for targets at 30 to 500°F (-1 to 260°C); ±5.0°F (±3°C) for targets at 0 to 30°F (-18 to -1°C)

Emissivity : Fixed 0.95

Distance-to-Target Size Ratio : 6:1

Laser Classification : Single point

Display : 4-digit

Resolution : 1°F / °C

Response Time : 500 ms, 95% response

Ambient Operating Temperature : 32 to 120°F (0 to 50°C)

power Requirement : One 9V battery (included)

Battery Life : 12 Hours

Repeatability : ± 2% of reading or ± 3°F (±2°C)

Storage Temperature : -4 to 150°F (-20 to 65°C) without battery

Relative Humidity : 10 - 95% RH noncondensing up to 86°F (35°C)

Spectral Response : 7 - 18 μm

Weight : 0.5 lb (227 g)

Agency Approvals : CE

Model : Recommended IRM20



TEMPERATURE CONTROLLER

PID Control, Auto Tuning, Large Dual Display, RS 485 Communication

Technical Data

Inputs : Thermocouple or RTD

Display : Two 4-digit, 7 segment. LED's PV : red. 75"H (19 mm); SV : green. 5" (12.7 mm)

Accuracy : ±0.25% span, ±1 least significant digit

Supply Voltage : 100 to 240 VAC, 50/60 Hz

Power Consumption : 5 VA max

Operating Temperature : 32 to 122°F (0 to 50°C)

Memory Backup : Nonvolatile memory

Control Output Ratings : Relay : SPST, 5A@250 VAC resistive, Voltage Pulse : 14V, 10% to -20% (max 40 mA) Current : 4 to 20 mA

Communication : RS 485 Modbus[®] Communication Protocol

Weight : 15 oz (472 g)

Agency Approvals : CE, UL, cUL

Front Panel Rating : IP66

Model : Recommended Series 4C





TEMPERATURE

TEMPERATURE TRANSMITTER



Technical Data

Microprocessor Based

Housing : ABS plastic

Dimension : 44 mm(diameter) x 24.5 mm (height), installed in thermocouple head

Input : MV, pt100 Ω , thermocouple available

Isolation : 4K Vac for 1 minute between sensor input and the 4~20mA loop

Electromagnetic Compatibility : According to EN 50081-2, EN 50082-2

Internal Protection Against Polarity Inversion

Cold Junction Compensation For Thermocouples

Thermocouples : Types J, K, R, S, T, N, E and B, according to IEC 60584-1 (ITS-90)

Impedance >> 1M Ω

Pt100 : Excitation : 180 μ A

2 or 3- wire connection (for 2-wire sensors, tie terminals 2 and 3 together)

α = 0.00385, according to IEC 60751 (ITS-90)

Voltage : 0 - 50m Vdc; Impedance >> 1M Ω

Total Accuracy : better than 0.25% of the maximum range for thermocouples and 0.15% for PT100 and voltage

Response Time : \leq 200 ms

Output : 2-wire 4-20mA, linear with respect to the measured temperature

Resolution : 0.001mA (16 bits) **Power Supply** : 10 to 35Vdc, across the transmitter

Maximum Load (RL) : < 600 Ω

Operating Temperature : - 40 to 85°C

Humidity : 0~90% RH

Common Mode Rejection Ration (COMRR) : > 80dB

Model : Recommended NT-IB

FIELD MOUNTED TEMPERATURE TRANSMITTER WITH DISPLAY



Technical Data

Enclosure Housing : Aluminium or SS316

Input : Programmable for the thermocouple

type K, J, R, S, T, N, E, B and

RTD pt 100 Ω from a PC

Working Span Range : Programmable from a PC

LCD Display : 4 1/2 digital

Output : Linearized 4 to 20 mA or 20 to 4 mA

Accuracy : pt 100 Ω and 0 to 50mV \pm 0.15% full scale

Thermocouple \pm 0.25% full scale

Ambient Temperature : -40 to +85°C (-40 to 185°F)

Power Supply : 12 to 35 VDC

Sensor Failure Protection : Programmable burnout upscale or downscale

Sensor Connection : 1/2", 3/4" available

Conduit Connection : 3/4" NPT Female

Model : Recommended T - 1000

SHEATH TYPE THERMOCOUPLE / RTD

Technical Data

Head Housing : IP65. Explosion proof available

K, E, J, T type available / RTD 2, 3, 4 - Wire

Dial Size : \varnothing 1.0~ \varnothing 8.0 mm on request

Sheath Material : SS316, SS310, Inconel 600 on request

Working Temperature Limited : -200~1050°C

according to applicable standards table

Measuring Junction Type : Grounded type, ungrounded type,

ungrounded separated type



FLANGE TYPE THERMOWELLS

Technical Data

Welded Type : WSF, WLF

Drilled Bar Stock Type : BSF, BLF, BTF, BTLF, BPSF, BPLF

Material : SS304, SS316, SS316L, Monel, Hastelloy C 276,

Brass, Carbon Steel, Titanium (special material available upon request)

Process Connection : 1/2"NPT, 3/4"NPT Female available

(special thread upon request)

Instrument Connection : 1/2"NPT, 3/4"NPT Female available

(special thread upon request)



CONVENTIONAL TYPE THERMOCOUPLE ASSEMBLIES

Technical Data

Head Housing : IP65 & IP67. Explosion proof available

R Type available

Insulator Dial Size : \varnothing 4.0~ \varnothing 6.0 mm on request

Insulated Material : Ceramic

Protection Tube Material : Metal, Non-metal. Refer to protection tube table

Working Temperature Limited : -200~1700°C

according to applicable standards table

Measuring Junction Type : Grounded type, Ungrounded type,

Ungrounded separated type



THREAD TYPE THERMOWELLS

Technical Data

Welded Type : WST, WLT

Drilled Bar stock Type : BST, BLT, BTT, BTLT, BPST, BPLT

Material : SS304, SS316, SS316L, Monel, hastelloy C 276,

Brass, Carbon Steel, Titanium (special material available upon request)

Process Connection : 1/2"~2" male available (special thread upon request)

Instrument Connection : 1/2"NPT, 3/4"NPT Female available

(special thread upon request)

