IN HEAD TEMPERATURE TRANSMITTER TYPE SEM206P

- ambient operating range -40…+85° C
- ambient storage temperature -50… + 90° C
- humidity range 10…90% RH, non condensing
- dimensions: 43mm diameter, 21mm height
- housing made of ABS/NORYL
- configuration by USB-KIT
- USB connection with PC (2.0 recommended)
- running Windows XP or later
- In head application: DIN raill mount (RMK-3/T handle), housing IP67 (SCH4)

INPUT

Sensor type:
- Pt100 , BS EN 60751 standard
- 100Ω at 0 °C, 2 or 3 wire

Sensor range:
- -200...+850°C, (18...390Ω)
- Minimum span: 25 °C

Linearisation:
- BS EN60751 (IEC 751) standard, JISC 1604

Accuracy: ±0.1 °C ±0.05% of reading
Temp. error: 25 ppm/°C
Excitation current: <200μA
Lead resistance: <20Ω per leg
(max. effect): 0.002 °C/Ω

OUTPUT

Output range:
- 4...20mA , 2 wire.
- (3.8mA...20.2mA)

current loop
Error indication:
- 21mA or 3,8mA, programmable

Accuracy: ±5μA
Loop voltage effect: 0.2μA/V
Temp. error: 1μA/°C
Voltage: 10...35VDC
Maximum output load:
- [(V supply -10)/20] kΩ np. 700Ω at 24V

Protection:
- reverse polariry and voltage >30V protection

IN HEAD TEMPERATURE TRANSMITTER TYPE SEM206TC

- ambient operating range -40…+85° C
- ambient storage temperature -50… + 90° C
- humidity range 10…90% RH, non condensing
- dimensions: 43mm diameter, 21mm height
- housing made of ABS/NORYL
- configuration by USB-KIT
- USB connection with PC (2.0 recommended)
- running Windows XP or later
- In head application: DIN raill mount (RMK-3/T handle), housing IP67 (SCH4)

INPUT

Sensors and rang:
- K (-200...+1370 °C)
- J (-100...+1200 °C)
- E (-200...+1000 °C)
- N (-180...+1300 °C)
- T (-200...+400 °C)
- R (-10...+1760 °C)
- S (-10...+1760 °C)
- mV (-10...+70mV)

Minimum span: 25 °C (>50°C recommended)
Linearisation:
BS4937/IEC 584-1, linear for mV
Accuracy:
- ±0.1% ±0.5 °C (K, J, E, N, R, S)
- ±0.2% ±0.5 °C (T)
- ±0.02% peln. zakresu (at mV)

Input/output isolation: 250VDC,
Cold junction error: 0,5 °C
Cold junction tracking: 0,05 °C/°C
Cold junction range: -40...+85 °C
Temp. error:
- zero 0,1 °C/°C, range 0,05 °C/°C

OUTPUT

Output range:
- 4...20mA , 2-przew.
- (3.8mA...20.2mA)

Current loop
Error indication:
- 21mA or 3,8mA, programmable

Accuracy: ±5μA
Loop voltage effect: 0.2μA/V
Temp. eror: 1μA/°C
Voltage 10...30VDC
Maximum output load:
- [(V supply -10)/20] kΩ np. 700Ω at 24V

Protection:
- reverse polariry and voltage >30V protection

IN HEAD TEMPERATURE TRANSMITTER TYPE ATR-RTD AND ATR-TC-RTD WITH REGISTRATION FUNCTION

- ambient operating range: 40…+85° C
- humidity: 30…90% RH (bez kondensacji)
- dimensions: 45mm diameter; 23mm height
- housing materialNylon (PA99)
- input type, connection type , range and recording parameters are gurable by RFID or mobiles with NFC and free app Pixsys for Android
- registration of the measured temperature
- in the internal memory (to 4000 measurements-loop registration)
- Diagram of registered temperature available. Access through
- programmer and mobile with NFC for Android.
- protection IP20
- housing for in head mount, e.g. B type
- reference CE,EN 61000-4-4, EN61000- 6-2

INPUT

Specification: ATR-RTD

Pt100 2,3,4 wire:
- Measuring range -200 …+800° C
- Resistance range 18,5…378Ω

Ni 100 2,3,4 wire:
- Measuring range – 50 ….+170° C
- Resistance range 74…..215Ω

Pt100 2 wire:
- Measuring range -200…..+800° C
- Resistance range 185…3780Ω

INPUT

Specification: ATR- TC-RTD

Pt100 2,3,4 wire:
- Measuring range -200...+600 °C
- Resistance range 18,5...313,7Ω

Ni 100 2,3,4 wire:
- Measuring range – 60...+180 °C
- Resistance range 69...223Ω

Sensor type T – 260...+400 °C
Sensor type E – 260...+940 °C
Sensor type J – 200...+1200 °C
Sensor type N – 260...+1280 °C
Sensor type K – 260...+1360 °C
Sensor type S – 40...+1760 °C
Sensor type R – 40...+1760 °C
Sensor type B – 40...+1820 °C
Input Voltage – 10...+70mV
Separation 1kV AC

NFC PROGRAMMING

OUTPUT

- Current output: 4-20 mA
- Error indication when out of the set range ±5 °C
- Set Signal 21,5 mA or 3,8 mA
- Input protection max. loop current about 30 mA
- Memory capacity 4000 measurements (Non-Volatile Memory Storage)
- Sampling rate from 1 to 3600
- Hum filtration 50÷60Hz
- Max. proccess error 0,1% of range or 0,2 °C
- EMI error <0,5%
- Leads resistance 20 Ω max
- Coefficient of temperature <100 ppm
- Sampling time 300 ms
- Accretion time (10-90%) about 600ms
- Power supply 6÷32V DC
- Input resolution: 1μA for ATR-RTD, 2μA for ATR-TC-RTD

CZAH–POMIAR Sp. z o.o. – 40–241 Katowice, ul. Porcelanowa 25, Tel.: +48 32 607 31 50, Fax: +48 32 607 31 73, e-mail: biuro@czah.pl