

**SINEAX Signal Conditioners & Isolators**

**SINEAX Temperature Transmitters**

**KINAX Angular Position Transducers**



*Solving Your Application Challenges!*

**Phone: 800-942-0315**

**Fax: 800-949-7502**

***www.apicb.com***

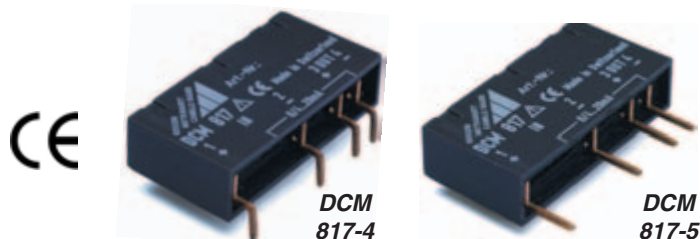
***A<sub>pi</sub>-Camille Bauer***  
Div. of Absolute Process Instruments, Inc.  
1220 American Way Libertyville, IL 60048 USA

**Sineax DCM 817 PCB-Mounted Loop Isolators**

- Passive Isolator, No Power Supply Required
- 0-20 or 4-20 mA Input and 0-20 or 4-20 mA Output
- Circuit Board Mounting—Straight or 90° Pins
- Isolate I/O and Eliminate Ground Loops

**Specifications**

|                 |  |
|-----------------|--|
| Input           | 0-20 mA to 4-20 mA, 50 mA limit            |
| Voltage Limiter | 18 V ±5% (with zener diode)                |
| Voltage Drop    | Less than 2 V for 500 Ω burden             |
| Output          | 0-20 mA to 4-20 mA, approx. 30 mA limit    |
| Burden          | 600 Ω, max.                                |
| Accuracy        | ±0.1% typical at 100 Ω burden              |
| Output Ripple   | Less than 20 mV <sub>ss</sub>              |
| Time Constant   | Less than 5 milliseconds, approx.          |
| Dielectric Test | 500 VAC                                    |
| Ambient         | Operation -20 to 65°C, storage -40 to 85°C |
| Power Supply    | Passive, powered by loop                   |



| Model     | Input     | Output    | Pins     |
|-----------|-----------|-----------|----------|
| DCM 817-4 | 0/4-20 mA | 0/4-20 mA | 90°      |
| DCM 817-5 | 0/4-20 mA | 0/4-20 mA | Straight |

See technical data sheet for complete specifications or consult factory.

**Sineax TI 816 Passive DC Signal Isolator**

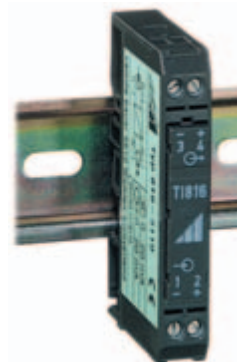
- Passive Isolator, No Power Supply Required
- 0-20 or 4-20 mA Input
- 0-20, 4-20 mA , 0-10 V to 2-10 V Output
- Isolate I/O and Eliminate Ground Loops

**Specifications**

|                 |  |
|-----------------|--|
| Input           | 0-20 mA to 4-20 mA, 50 mA limit            |
| Voltage Limiter | 18 V ±5% (with zener diode)                |
| Voltage Drop    | Less than 2 V for 500 Ω burden             |
| Output          | 0-20 mA, 4-20 mA, 0-10 V to 2-10 V         |
| Burden          | Current: 600 Ω, max., voltage: 500 Ω, max. |
| Accuracy        | ±0.1% at 20 mA, ±0.2 V at 10 V typical     |
| Time Constant   | Less than 5 milliseconds, approx.          |
| Dielectric Test | 500 VAC                                    |
| Ambient         | Operation -20 to 65°C, storage -40 to 85°C |
| Power Supply    | Passive, powered by loop                   |



**DIN Rail Mount**  
 Only 0.5" (12.5 mm) Wide!



| Model       | Input   | Output  |
|-------------|---------|---------|
| TI 816-5110 | 4-20 mA | 4-20 mA |
| TI 816-5111 | 4-20 mA | 2-10 V  |

See technical data sheet for complete specifications or consult factory.

**Sineax SI 815 Passive Isolator with Power Supply Transfer**

- 4-20 mA Input and Output
- One or Two Channel Versions
- Passes Power from Output to Transmitter
- Optional FSK Compatible with HART Communications

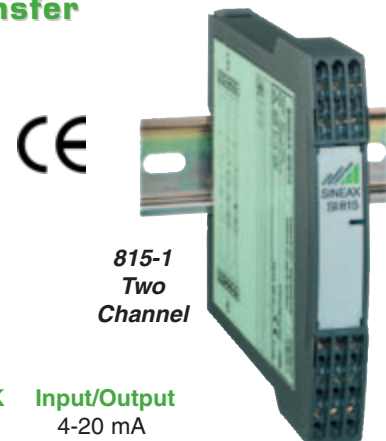
**Specifications**

|                 |  |
|-----------------|--|
| Input           | 4-20 mA, 50 mA limit   |
| Voltage         | 12-30 VDC  |
| Voltage Drop    | Less than 2.7 V at 12-22 V<br>Less than 3.5 V at 12-22 V w. communications |
| Output          | 4-20 mA, optional FSK  |
| Accuracy        | ±0.2% max at 20 mA   |
| Time Constant   | 5 milliseconds, approx.  |
| Dielectric Test | 2300 VAC   |
| Ambient         | Operation -25 to 55°C, storage -40 to 70°C                                 |
| Power Supply    | Passive, powered by loop   |

**815-5 Single Channel**



**815-1 Two Channel**



| Model     | Channels | FSK | Input/Output |
|-----------|----------|-----|--------------|
| 815-51100 | 1        | no  | 4-20 mA      |
| 815-51110 | 1        | yes | 4-20 mA      |
| 815-11200 | 2        | no  | 4-20 mA      |
| 815-11220 | 2        | yes | 4-20 mA      |

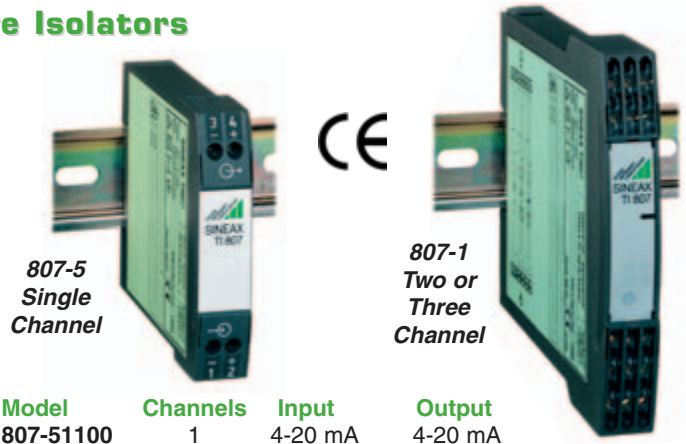
See technical data sheet for complete specifications or consult factory.

**Sineax TI 807 1 to 3 Channel Passive Isolators**

- Passive Isolator, No Power Supply Required
- 0-20 or 4-20 mA Input
- 0-20, 4-20 mA , 0-10 V to 2-10 V Output
- Isolate I/O and Eliminate Ground Loops

**Specifications**

|                 |   |
|-----------------|---|
| Input           | 0-20 mA to 4-20 mA, 50 mA limit                             |
| Voltage Limiter | 27 V $\pm$ 5% (with zener diode)                            |
| Output          | 0-20 mA, 4-20 mA, 0-10 V to 2-10 V                          |
| Voltage Drop    | <2.6 V at 1000 $\Omega$ (current) or 500 $\Omega$ (voltage) |
| Burden          | Current: 1000 $\Omega$ , max., voltage: 500 $\Omega$ , max. |
| Accuracy        | $\pm$ 0.1% at 20 mA, $\pm$ 0.2% at 10 V, typical            |
| Time Constant   | 3 milliseconds, approx.                                     |
| Dielectric Test | 4000 VAC  |
| Ambient         | Operation -20 to 55°C, storage -40 to 70°C                  |
| Power Supply    | Passive, powered by loop                                    |



| Model     | Channels | Input   | Output            |
|-----------|----------|---------|-------------------|
| 807-51100 | 1        | 4-20 mA | 4-20 mA           |
| 807-11200 | 2        | 4-20 mA | 4-20 mA           |
| 807-11300 | 3        | 4-20 mA | 4-20 mA           |
| 807-_____ | Specify  | 4-20 mA | 0-10 V or Specify |

See technical data sheet for complete specifications or consult factory

**Sineax TV 808 Isolated Signal Conditioners; 1 Channel, 2 Channel, Splitter**

- Single Channel, 2 Channel and Splitter Versions
- Internal Jumpers to Select Ranges
- Isolate and/or Amplify Unipolar or Bipolar Signals
- Powered by 24-60 VAC/VDC or 85-230 VAC/VDC

**Specifications**

|                 |   |
|-----------------|---|
| Input           | 0-0.1 mA to $\pm$ 50 mA, 0-0.06 V to $\pm$ 40 V |
| Output          | 0-1 mA to $\pm$ 20 mA, 0-1 V to $\pm$ 10 V      |
| Burden          | 12 V for current, see data sheet for voltage    |
| Accuracy        | Better than $\pm$ 0.2%, typical                 |
| Response Time   | Less than 50 milliseconds                       |
| Dielectric Test | 2300 VAC  |
| Ambient         | Operation -25 to 55°C, storage -40 to 70°C      |
| Power Supply    | 24-60 VAC/VDC or 85-230 VAC/VDC                 |



| Model    | Input  | Output | Power Supply   |
|----------|--------|--------|----------------|
| 808-1111 | Single | Single | 24-60 VAC/VDC  |
| 808-1121 | Single | Single | 85-230 VAC/VDC |
| 808-1212 | Dual   | Dual   | 24-60 VAC/VDC  |
| 808-1222 | Dual   | Dual   | 85-230 VAC/VDC |
| 808-1213 | Single | Dual   | 24-60 VAC/VDC  |
| 808-1223 | Single | Dual   | 85-230 VAC/VDC |

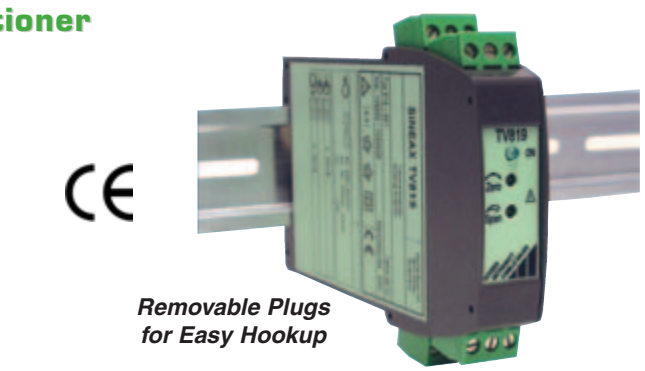
Please specify Input and Output ranges.  
 See technical data sheet for complete specifications or consult factory

**Sineax TV 819 Isolated Signal Conditioner**

- Single Channel with 250 Input/Output Combinations
- 4-20 mA or Special Ranges
- Isolate and/or Amplify Unipolar or Bipolar Signals
- Powered by 24-60 VAC/VDC or 85-230 VAC/VDC

**Specifications**

|                 |  |
|-----------------|--|
| Input           | 0-0.1 mA to $\pm$ 40 mA, 0-0.06 V to $\pm$ 600 V                       |
| Output          | 0-1 mA to $\pm$ 20 mA, 0-1 V to $\pm$ 10 V<br>Reverse output available |
| Burden          | 12 V for current, see data sheet for voltage                           |
| Accuracy        | Better than $\pm$ 0.2%, typical  |
| Response Time   | Less than 100 milliseconds   |
| Dielectric Test | 2300 VAC   |
| Ambient         | Operation -25 to 55°C, storage -40 to 70°C                             |
| Power Supply    | 24-60 VAC/VDC or 85-230 VAC/VDC  |



| Model        | Input   | Output  | Power Supply   |
|--------------|---------|---------|----------------|
| 819-911Z     | 4-20 mA | 4-20 mA | 24-60 VAC/VDC  |
| 819-921Z     | 4-20 mA | 4-20 mA | 85-230 VAC/VDC |
| 819-911_____ | Specify | Specify | 24-60 VAC/VDC  |
| 819-921_____ | Specify | Specify | 85-230 VAC/VDC |

See technical data sheet for complete ordering specifications or consult factory

**Sineax TV 809 Programmable Isolated Signal Conditioner**

- Single Channel with Optional Alarm Contact
- Plug-In Connectors Simplify Installation
- Isolate and/or Amplify Unipolar or Bipolar Signals
- Powered by 24-60 VAC/VDC or 85-230 VAC/VDC

**Specifications**

|                  |  |
|------------------|--|
| Input            | ±1.5 mA to ±100 mA, 0-0.06 V to ±1000 V      |
| Output           | 0-1 mA to ±20 mA, 0-1 V to ±10 V             |
|                  | Reverse output available                     |
| Burden           | 12 V for current, see data sheet for voltage |
| Accuracy         | Better than ±0.2%, typical                   |
| Response Time    | Programmable input filter                    |
| Alarm (optional) | SPDT 2 A @ 230 VAC or 125 VDC resistive      |
|                  | Programmable Hi or Lo, hysteresis, delay     |
| Dielectric Test  | 2300 VAC                                     |
| Ambient          | Operation -25 to 55°C, storage -40 to 70°C   |
| Power Supply     | 24-60 VAC/VDC or 85-230 VAC/VDC              |



**Removable Plugs for Easy Hookup**



| Model     | Alarm | Power Supply   |
|-----------|-------|----------------|
| 809-91100 | no    | 24-60 VAC/VDC  |
| 809-92100 | no    | 85-230 VAC/VDC |
| 809-91110 | yes   | 24-60 VAC/VDC  |
| 809-92110 | yes   | 85-230 VAC/VDC |

See technical data sheet for complete specifications or consult factory.

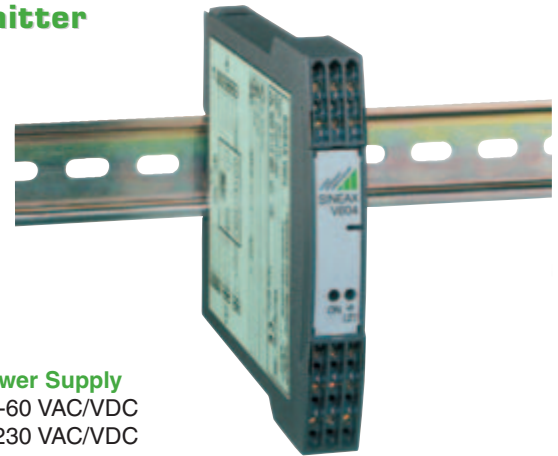
**PRKAB 600-B** Programming cables and TV 800 Plus software

**Sineax V 604 Programmable Universal Transmitter**

- Single Channel with One Alarm Contact
- DC Current, Voltage, T/C, RTD or Potentiometer Input
- Isolate and/or Amplify Unipolar or Bipolar Signals
- Powered by 24-60 VAC/VDC or 85-230 VAC/VDC

**Specifications**

|                |   |
|----------------|---|
| Current Input  | 0 to 0.08 mA to -50 to +100 mA  |
| Voltage Input  | 0-2 mV to ±300 mV, ±40 V w. potential divider   |
| RTD/Pot. Input | 2-, 3-, 4-wire, 10 Ω to 5000 Ω max., ΔT, Σ  |
| T/C Input      | J, K, T, E, R, S, N, B, L, U, W-Re, custom  |
| Output         | 0-5 mA to ±22 mA, 0-4 V to -12 V to +15 V   |
|                | Custom linearization, √ and reverse outputs   |
| Burden         | 15 V for current, see data sheet for voltage  |
| Accuracy       | Better than ±0.2%, typical  |
| Alarm          | 1 SPDT for Hi, Lo, or open sensor, or max rate of change. Programmable delay & hysteresis |
| Ambient        | Operation -25 to 55°C, storage -40 to 70°C  |



| Model   | Power Supply   |
|---------|----------------|
| 604-112 | 24-60 VAC/VDC  |
| 604-122 | 85-230 VAC/VDC |

See technical data sheet for complete ordering specifications or consult factory.  
 Can be factory programmed to your specifications

**PRKAB 600-A** Programming cables and VC 600 software

**Sineax VC 603 Programmable Universal Transmitter with Alarms**

- Single Channel with Three Alarm Contacts
- DC Current, Voltage, T/C, RTD or Potentiometer Input
- Isolate and/or Amplify Unipolar or Bipolar Signals
- Powered by 24-60 VAC/VDC or 85-230 VAC/VDC

**Specifications**

|                |   |
|----------------|---|
| Current Input  | 0 to 0.08 mA to -50 to +100 mA  |
| Voltage Input  | 0-2 mV to ±300 mV, ±40 V w. potential divider                             |
| RTD/Pot. Input | 2-, 3-, 4-wire, 10 Ω to 5000 Ω max., ΔT, Σ                                |
| T/C Input      | J, K, T, E, R, S, N, B, L, U, W-Re, custom                                |
| Output         | 0-5 mA to ±22 mA, 0-4 V to -12 V to +15 V                                 |
|                | linearization, √, output reversal, or filtering                           |
| Burden         | 15 V for current, see data sheet for voltage                              |
| Accuracy       | Better than ±0.2%, typical  |
| Alarms         | 1 DPDT & 1 SPDT for Hi, Lo alarms, 1 SPDT 2 A @ 230 VAC/125 VDC resistive |
|                | Hi, Lo, open sensor, or rate of change                                    |
|                | Programmable delay and hysteresis   |
| Ambient        | Operation -25 to 55°C, storage -40 to 70°C                                |



| Model   | Power Supply   |
|---------|----------------|
| 603-112 | 24-60 VAC/VDC  |
| 603-122 | 85-230 VAC/VDC |

See technical data sheet for complete ordering specifications or consult factory.  
 Can be factory programmed to your specifications

**PRKAB 600-A** Programming cables and VC 600 software

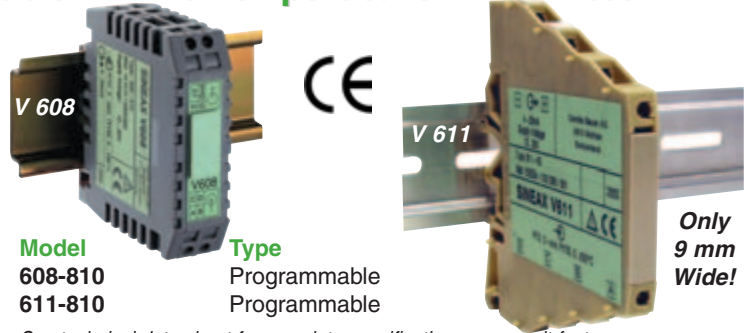
**Sineax V 608**  
**Sineax V 611**

**Programmable 2-Wire Temperature Transmitter**  
**Ultra-Thin Programmable 2-Wire Temperature Transmitter**

- Transmit RTD and T/C Signals
- 4-20 mA or 20-4 mA Output
- Programmable Sensor Fault Action
- Powered by 12-30 VDC Output Loop

**Specifications**

|               |  |
|---------------|--|
| RTD Input     | 2-, 3-, 4-wire, Pt100, Ni100                 |
| T/C Input     | J, K, T, E, R, S, N, B, L, U, W-Re           |
| Output        | Non-isolated 4-20 mA or 20-4 mA              |
| Burden        | 12 V for current, see data sheet for voltage |
| Accuracy      | ±0.2%, or greater depending on sensor        |
| Response Time | 1.5 sec or greater depending on conditions   |
| Ambient       | Operation -25 to 70°C, storage -40 to 80°C   |



|              |              |
|--------------|--------------|
| <b>Model</b> | <b>Type</b>  |
| 608-810      | Programmable |
| 611-810      | Programmable |

See technical data sheet for complete specifications or consult factory  
 Can be factory programmed to your specifications

|                 |  |
|-----------------|--|
| <b>PK 610-A</b> | V 608 programming cables & V 600 Plus software |
| <b>PK 610-B</b> | V 611 programming cables & V 600 Plus software |

Only  
9 mm  
Wide!

**Sineax V 624**

**Programmable Temperature Transmitter**

- RTD and T/C to 4-20 mA Isolated Transmitter
- Plug-In Connectors Simplify Installation
- Programmable Sensor Fault Action
- Powered by 24-60 VAC/VDC or 85-230 VAC/VDC

**Specifications**

|                 |  |
|-----------------|--|
| RTD Input       | 2-, 3-, 4-wire, Pt100, Ni100   |
| T/C Input       | J, K, T, E, R, S, N, B, L, U, W-Re   |
| Output          | 0-20 or 4-20 mA to 20-0 mA, 2 mA min. span<br>0-2 V to 0-10 V, 10-0 V, 1 V min. span |
| Burden          | 12 V for current, see data sheet for voltage   |
| Accuracy        | Better than ±0.2%, typical   |
| Dielectric Test | 2300 VAC   |
| Ambient         | Operation -25 to 55°C, storage -40 to 70°C   |
| Power Supply    | 24-60 VAC/VDC or 85-230 VAC/VDC  |

|              |               |                     |
|--------------|---------------|---------------------|
| <b>Model</b> | <b>Output</b> | <b>Power Supply</b> |
| 624-9110     | 4-20 mA       | 24-60 VAC/VDC       |
| 624-9210     | 4-20 mA       | 85-230 VAC/VDC      |
| 624-9120     | 0-10 V        | 24-60 VAC/VDC       |
| 624-9220     | 0-10 V        | 85-230 VAC/VDC      |

See technical data sheet for complete specifications or consult factory

**PK 610** Programming cables and V 600 Plus software

Removable Plugs  
for Easy Hookup



**Sineax B 811**  
**Sineax B 840**

**Loop Power Supplies with Signal Transfer Output**  
**4-Channel Loop Power Supplies**

- 24 VDC Output at 20 mA
- B 811 Available with Voltage Output or HART
- B 811 with Programmable Loop Fault Action & Relay
- Diagnostic LEDs for Operational Status & Loop Fault

**Specifications B 811**

|                 |  |
|-----------------|--|
| Input           | 4-20 mA  |
| Output          | 0-1 mA to 4-20 mA, 0-1 V to 2-10 V                                       |
| Burden          | 15 V without HART  |
| Alarm           | 1 SPDT for circuit fault supervision<br>2 A at 230 VAC/125 VDC resistive |
| Ambient         | Operation -25 to 55°C, storage -40 to 70°C                               |
| Dielectric Test | 2300 VAC   |
| Power Supply    | 24-60 VAC/VDC or 85-230 VAC/VDC  |

**Specifications B 840**

|              |  |
|--------------|--|
| Input        | Four independent 4-20 mA loops             |
| Ambient      | Operation -10 to 55°C, storage -40 to 70°C |
| Power Supply | 24 VAC, 115 VAC, or 230 VAC                |



|              |                   |               |              |                     |
|--------------|-------------------|---------------|--------------|---------------------|
| <b>Model</b> | <b>Loop Power</b> | <b>Output</b> | <b>Comm.</b> | <b>Power Supply</b> |
| 811-11B      | 24 V @ 20 mA      | 4-20 mA       | None         | 24-60 VAC/VDC       |
| 811-12B      | 24 V @ 20 mA      | 4-20 mA       | None         | 85-230 VAC/VDC      |
| 811-11       | 24 V @ 20 mA      | Specify       | Specify      | 24-60 VAC/VDC       |
| 811-12       | 24 V @ 20 mA      | Specify       | Specify      | 85-230 VAC/VDC      |

|              |                          |                     |
|--------------|--------------------------|---------------------|
| <b>Model</b> | <b>Loop Power</b>        | <b>Power Supply</b> |
| 840-147-464  | 4 Channels, 24 V @ 20 mA | 24 VAC              |
| 840-147-472  | 4 Channels, 24 V @ 20 mA | 115 VAC             |
| 840-147-480  | 4 Channels, 24 V @ 20 mA | 230 VAC             |

See technical data sheet for complete specifications or consult factory

## Sineax VK 616 Programmable Temperature Transmitters

- Linearized 4-20 mA Output for RTD or T/C Sensors
- Isolated and Non-Isolated Versions
- Programmable Sensor Failure Response
- Powered by 12-30 VDC Current Loop

### Specifications

|                 |  |
|-----------------|--|
| RTD Input       | 2-, 3-, 4-wire, Pt100, Ni100                         |
| T/C Input       | J, K, T, E, R, S, N, B, L, U, W-Re                   |
| Output          | 4-20 mA  |
| Accuracy        | Better than $\pm 0.2\%$ , typical                    |
| Dielectric Test | 1500 VAC for isolated version                        |
| Ambient         | Operation $-25$ to $80$ °C, storage $-40$ to $80$ °C |
| Power Supply    | 12-30 VDC  |



| Model         | Type         |
|---------------|--------------|
| <b>616-71</b> | Non-Isolated |
| <b>616-72</b> | Isolated     |

See technical data sheet for complete specifications or consult factory.  
Can be factory programmed to your specifications

**PK 610-B** Programming cables and V 600 Plus software

## Sineax VK 626 HART Temperature Transmitter

- Linearized 4-20 mA Output for RTD or T/C Sensors
- Isolated and HART Compatible
- Programmable Sensor Failure Response
- Powered by 12-30 VDC Current Loop

### Specifications

|                 |  |
|-----------------|--|
| RTD Input       | 2-, 3-, 4-wire, Pt100, Ni100   |
| T/C Input       | J, K, T, E, R, S, N, B, L, U, W-Re   |
| Output          | 4-20 mA  |
| Accuracy        | Better than $\pm 0.2\%$ , typical  |
| Dielectric Test | 1500 VAC   |
| Ambient         | Operation $-25$ to $80$ °C, storage $-40$ to $80$ °C   |
| Power Supply    | 12-30 VDC  |
| Programming     | PC with hardware/software interface such as Smar HI 311, MACTeck Viator 010001, Siemens 7MF 4997-1DA |



| Model          | Type                    |
|----------------|-------------------------|
| <b>626-7A0</b> | Isolated, HART Protocol |

See technical data sheet for complete specifications or consult factory.  
Can be factory programmed to your specifications

## Sineax VK 636 PROFIBUS Temperature Transmitter

- RTD or T/C Input
- PROFIBUS-PA Compatible
- Input/Output Isolation
- Powered by Bus Coupler

### Specifications

|                 |  |
|-----------------|--|
| RTD Input       | 2-, 3-, 4-wire, Pt100, Ni100   |
| T/C Input       | J, K, T, E, R, S, N, B, L, U, W-Re   |
| Output          | Profibus-PA version 3.0  |
| Accuracy        | Better than $\pm 0.2\%$ , typical  |
| Dielectric Test | 1500 VAC   |
| Ambient         | Operation $-25$ to $80$ °C, storage $-40$ to $80$ °C   |
| Programming     | Software required: Master class 2 PC, basic device file (GSD), device description (DD) and configuration<br>Hardware required: DP cable, bus coupler and ancillary two-wire cable. |



| Model          | Type                           |
|----------------|--------------------------------|
| <b>636-7C0</b> | Isolated, PROFIBUS-PA Protocol |

See technical data sheet for complete specifications or consult factory.  
Can be factory programmed to your specifications

HART—Reg TM Hart Foundation PROFIBUS logo—Reg TM PROFIBUS International

Sig. Cond.

- Contactless Capacitive Design
- Continuous Analog Output
- 0-5° to 0-270° Ranges
- Low-Torque Design



| Model                     | Kinax 3W2                                | Kinax WT 710                             | Kinax WT 707                           | Kinax SR 709                           |
|---------------------------|--|--|--|--|
| Application               | OEM                                      | Heavy Duty OEM, Add-on                   | Heavy Duty Machinery                   | Linear and Valve Position              |
| Input Ranges              | 0-5° to 0-270°, no stops                 | 0-5° to 0-270°, no stops                 | 0-5° to 0-270°, no stops               | 0-10 mm to 0-140 mm stroke             |
| Input Direction           | CW, CCW, bidirectional                   | CW, CCW, bidirectional                   | CW, CCW, bidirectional                 | Up or Down                             |
| Accuracy <150°, Typical   | Better than ±0.5%                        | Better than ±0.5%                        | Better than ±0.5%                      | Better than ±0.5% linearity            |
| Accuracy 150°-270°, Typ.  | Better than ±1.5%                        | Better than ±1.5%                        | Better than ±1.5%                      | -                                      |
| Output Ranges             | 0-1 mA to 4-20 mA                        | 0-1 mA to 4-20 mA                        | 0-1 mA to 4-20 mA                      | 0-1 mA to 4-20 mA                      |
| Zero Adjust, Approx.      | ±5%                                      | ±5%                                      | ±5%                                    | ±5%                                    |
| Span Adjust, Approx.      | -30% to +5%                              | -30% to +5%                              | -30% to +5%                            | -30% to +5%                            |
| Response Time             | < 5 ms                                   | < 5 ms                                   | < 5 ms                                 | < 5 ms                                 |
| Connections               | Solder terminals                         | Covered screw terminals & cable glands   | Covered screw terminals & cable glands | Covered screw terminals & cable glands |
| Connections, Optional     | Screw terminals                          | -  | Plug-in connector                      | -                                      |
| Shaft                     | 2 mm dia x 6 mm L                        | 2 mm dia x 6 mm L                        | 19 mm dia x 32.5 mm L                  | Lever arm                              |
| Torque                    | < 0.0009 lb-in                           | < 0.0009 lb-in                           | Approx. 2.1 lb-in                      | Spring loaded                          |
| Shaft, Optional           | 6 mm dia x 12 mm L or 1/4" dia x 12 mm L | 6 mm dia x 12 mm L or 1/4" dia x 12 mm L | -                                      | -                                      |
| Torque, w. Optional Shaft | < 0.0265 lb-in                           | < 0.0265 lb-in                           | -                                      | -                                      |
| Housing Diameter          | 48 mm                                    | 80 mm                                    | 102 mm                                 | 105 mm                                 |
| Gear Reduction            | -  | Optional 1:4 to 64:1                     | Optional 2:1 to 1600:1                 | -                                      |
| Housing Type              | Anodized aluminum                        | Coated cast aluminum                     | QPQ nitrocarburized steel              | Coated cast aluminum                   |
| Mounting                  | Direct mount                             | Direct mount                             | Direct mount                           | Direct mount                           |
| Mounting, Optional        | -  | Mounting clamps                          | Mounting foot or flange                | NAMUR mounting clamp                   |
| Ambient                   | -25 to 70 °C                             | -25 to 70 °C                             | -25 to 70 °C                           | -25 to 70 °C                           |
| Ambient, Optional         | -40 to 70 °C                             | -40 to 70 °C                             | -40 to 70 °C                           | -40 to 70 °C                           |
| Power Supply              | 12-33 VDC                                | 12-33 VDC                                | 12-33 VDC                              | 12-33 VDC                              |
| Power Supply, Optional    | -  | 24-60 VAC/VDC or 85-230 VAC/VDC          | 24-60 VAC/VDC or 85-230 VAC/VDC        | 24-60 VAC/VDC or 85-230 VAC/VDC        |



**Kinax 3W2**  
**OEM Transducer**



| Model    | Range   | Direction | Shaft   | Output  | Power     |
|----------|---------|-----------|---------|---------|-----------|
| 708-112D | 0-30°   | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 708-113D | 0-60°   | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 708-114D | 0-90°   | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 708-116D | 0-270°  | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 708-1___ | Specify | Specify   | Specify | Specify | 12-33 VDC |



**Kinax WT 710**  
**Heavy Duty OEM**



| Model    | Range   | Direction | Shaft   | Output  | Power     |
|----------|---------|-----------|---------|---------|-----------|
| 710-112D | 0-30°   | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 710-113D | 0-60°   | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 710-114D | 0-90°   | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 710-116D | 0-270°  | CW        | 2 mm    | 4-20 mA | 12-33 VDC |
| 710-1___ | Specify | Specify   | Specify | Specify | Specify   |



**Kinax WT 707**  
**Heavy Duty Transducer**



| Model    | Range   | Direction | Shaft   | Output  | Power     |
|----------|---------|-----------|---------|---------|-----------|
| 707-112D | 0-30°   | CW        | 19 mm   | 4-20 mA | 12-33 VDC |
| 707-113D | 0-60°   | CW        | 19 mm   | 4-20 mA | 12-33 VDC |
| 707-114D | 0-90°   | CW        | 19 mm   | 4-20 mA | 12-33 VDC |
| 707-116D | 0-270°  | CW        | 19 mm   | 4-20 mA | 12-33 VDC |
| 707-1___ | Specify | Specify   | Specify | Specify | Specify   |



**Kinax SR 709**  
**Linear Transducer**

| Model      | Lever Direction | Output  | Power     |
|------------|-----------------|---------|-----------|
| 709-10DA00 | Down = 4 mA     | 4-20 mA | 12-33 VDC |
| 709-11DA00 | Up = 4 mA       | 4-20 mA | 12-33 VDC |
| 709-1___   | Specify         | Specify | Specify   |

See technical data sheets for complete specifications or consult factory

# KINAX Programmable Angular Position Transducers

- Contactless Capacitive Design
- Continuous Analog Output
- 0-5° to 0-350° Ranges
- Low-Torque Design
- PC Programmable



| Model                     | Kinax 2W2                                | Kinax WT 711                             | Kinax WT 717                            | Kinax SR 719                            |
|---------------------------|--|--|---|---|
| Application               | OEM                                      | Heavy Duty OEM, Add-on                   | Heavy Duty Machinery                    | Linear and Valve Position               |
| Input Range Version "1"   | 0-10° to 0-50°, no stops                 | 0-10° to 0-50°, no stops                 | 0-10° to 0-50°, no stops                | 0-10 mm to 0-40 mm stroke               |
| Input Range Version "2"   | 0-50° to 0-350°, no stops                | 0-50° to 0-350°, no stops                | 0-50° to 0-350°, no stops               | 0-40 mm to 0-140 mm stroke              |
| Direction, Programmable   | CW, CCW, bidirectional                   | CW, CCW, bidirectional                   | CW, CCW, bidirectional                  | Up or Down                              |
| Accuracy, Typical         | Better than ±0.5%                        | Better than ±0.5%                        | Better than ±0.5%                       | Better than ±0.5% linearity             |
| Output Ranges             | 0-1 mA to 4-20 mA                        | 0-1 mA to 4-20 mA                        | 0-1 mA to 4-20 mA                       | 0-1 mA to 4-20 mA                       |
| Zero, Span Adjust         | ±5%, ±5%                                 | ±5%, ±5%                                 | ±5%, ±5%                                | ±5%, ±5%                                |
| Output Programmability    | Linear, Curved, Simulation, Acquisition  | Linear, Curved, Simulation, Acquisition  | Linear, Curved, Simulation, Acquisition | Linear, Curved, Simulation, Acquisition |
| Response Time             | < 5 ms                                   | < 5 ms                                   | < 5 ms                                  | < 5 ms                                  |
| Connections               | Solder terminals                         | Covered screw terminals & cable glands   | Covered screw terminals & cable glands  | Covered screw terminals & cable glands  |
| Connections, Optional     | Screw terminals                          | -  | Plug-in connector                       | -                                       |
| Shaft                     | 2 mm dia x 6 mm L                        | 2 mm dia x 6 mm L                        | 19 mm dia x 32.5 mm L                   | Lever arm                               |
| Torque                    | < 0.0009 lb-in                           | < 0.0009 lb-in                           | Approx. 2.1 lb-in                       | Spring loaded                           |
| Shaft, Optional           | 6 mm dia x 12 mm L or 1/4" dia x 12 mm L | 6 mm dia x 12 mm L or 1/4" dia x 12 mm L | -                                       | -                                       |
| Torque, w. Optional Shaft | < 0.0265 lb-in                           | < 0.0265 lb-in                           | -                                       | -                                       |
| Housing Diameter          | 48 mm                                    | 80 mm                                    | 102 mm                                  | 105 mm                                  |
| Gear Reduction            | -  | Optional 1:4 to 64:1                     | Optional 2:1 to 1600:1                  | -                                       |
| Housing Type              | Anodized aluminum                        | Coated cast aluminum                     | QPQ nitrocarburized steel               | Coated cast aluminum                    |
| Mounting                  | Direct mount                             | Direct mount                             | Direct mount                            | Direct mount                            |
| Mounting, Optional        | -  | Mounting clamps                          | Mounting foot or flange                 | NAMUR mounting clamp                    |
| Ambient                   | -25 to 70 °C                             | -25 to 70 °C                             | -25 to 70 °C                            | -25 to 70 °C                            |
| Ambient, Optional         | -40 to 70 °C                             | -40 to 70 °C                             | -40 to 70 °C                            | -40 to 70 °C                            |
| Power Supply              | 12-33 VDC                                | 12-33 VDC                                | 12-33 VDC                               | 12-33 VDC                               |
| Power Supply, Optional    | -  | 24-60 VAC/VDC or 85-230 VAC/VDC          | 24-60 VAC/VDC or 85-230 VAC/VDC         | 24-60 VAC/VDC or 85-230 VAC/VDC         |



## Kinax 2W2 OEM Transducer



| Model     | Range   | Terminals | Shaft   | Output  | Power     |
|-----------|---------|-----------|---------|---------|-----------|
| 760-1111  | 0-50°   | Solder    | 2 mm    | 4-20 mA | 12-33 VDC |
| 760-1211  | 50-350° | Solder    | 2 mm    | 4-20 mA | 12-33 VDC |
| 708-1____ | Specify | Specify   | Specify | Specify | 12-33 VDC |



## Kinax WT 711 Heavy Duty OEM



| Model     | Range   | Shaft   | Output  | Power     |
|-----------|---------|---------|---------|-----------|
| 711-1111  | 0-50°   | 2 mm    | 4-20 mA | 12-33 VDC |
| 711-1211  | 50-350° | 2 mm    | 4-20 mA | 12-33 VDC |
| 711-1____ | Specify | Specify | Specify | Specify   |



## Kinax WT 717 Heavy Duty Transducer



| Model     | Range   | Shaft   | Output  | Power     |
|-----------|---------|---------|---------|-----------|
| 717-1111  | 0-50°   | 19 mm   | 4-20 mA | 12-33 VDC |
| 717-1211  | 50-350° | 19 mm   | 4-20 mA | 12-33 VDC |
| 717-1____ | Specify | Specify | Specify | Specify   |



## Kinax SR 719 Linear Transducer

| Model     | Lever Direction | Output  | Power     |
|-----------|-----------------|---------|-----------|
| 719-10DA0 | Down = 4 mA     | 4-20 mA | 12-33 VDC |
| 719-11DA0 | Up = 4 mA       | 4-20 mA | 12-33 VDC |
| 719-1____ | Specify         | Specify | Specify   |

## Kinax Programmable Cables & Software

PK 610-B Programming cables and V 600 Plus software

See technical data sheets for complete specifications or consult factory  
Can be factory programmed to your specifications