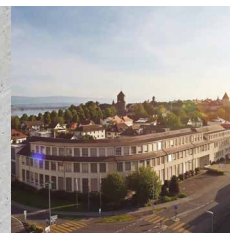


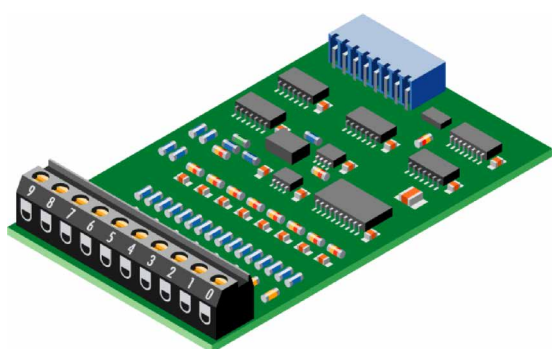
PCD2.W200

Módulo de entrada analógico, 8 canales, 10 bits, 0 ... 10 V



Descripción

Con un tiempo de conversión corto de <math>< 50 \mu\text{s}</math>, este módulo universal sirve para la recepción de señales analógicas



PCD2.W200

Datos técnicos

| | |
|--|--|
| Número de entradas (canales) | 8 |
| Alcance de la señal | 0 ... 10 V |
| Visualización digital (resolución) | 10 bits (0 ... 1023) |
| Resolución | 9.775 mV por bit |
| Aislamiento de potencial | no |
| Principio de medición | no diferencial, de extremo único |
| Resistencia de entrada | 200 k Ω / 0,15 % |
| Precisión (con respecto al valor medido) | ± 3 LSB |
| Precisión de repetición (en las mismas condiciones de uso) | en 1 LSB |
| Sensor de temperatura (0 ... +55 °C) | $\pm 0,3$ % (± 3 LSB) |
| Tiempo de conversión A/D | $\leq 50 \mu\text{s}$ |
| Protección contra sobrecargas | ± 50 VDC |
| Protección contra sobrecargas (ráfaga) según IEC 1000-4-4 | ± 1 kV, líneas no blindadas ± 2 kV, líneas blindadas |
| Constante temporal del filtro de entrada | típico 5 ms |
| Consumo de corriente interno (desde +5 V Bus) | 8 mA |
| Consumo de corriente interno (desde V+ Bus) | 5 mA |
| Consumo de corriente externo | 0 mA |
| Conexiones | Bloque de terminales de tornillo de 10 polos enchufables, para cables de hasta 1,5 mm ² . Enchufe tipo L (4 405 4847 0). |

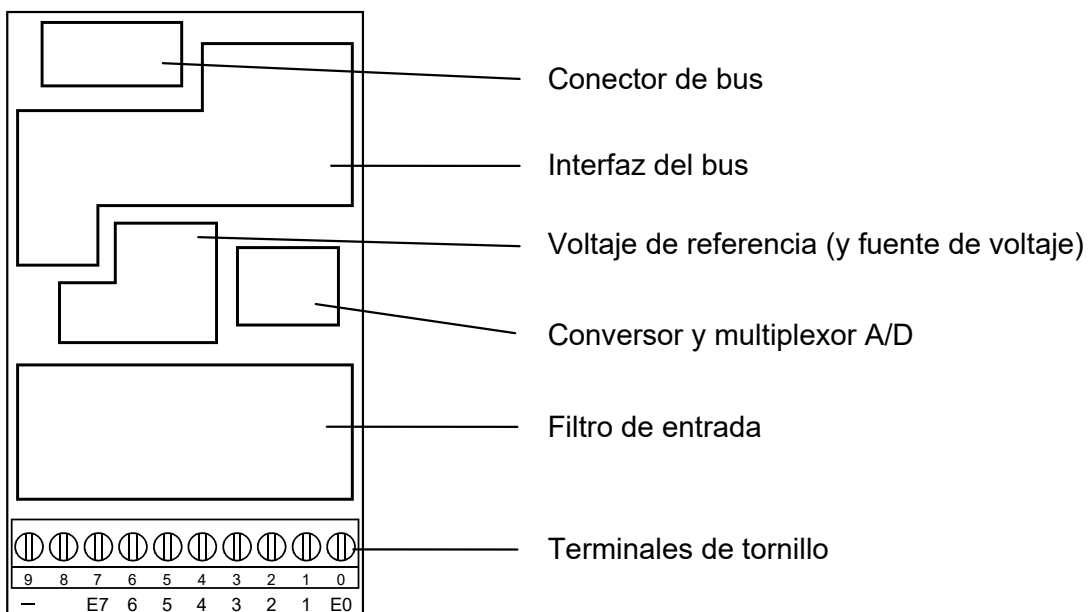
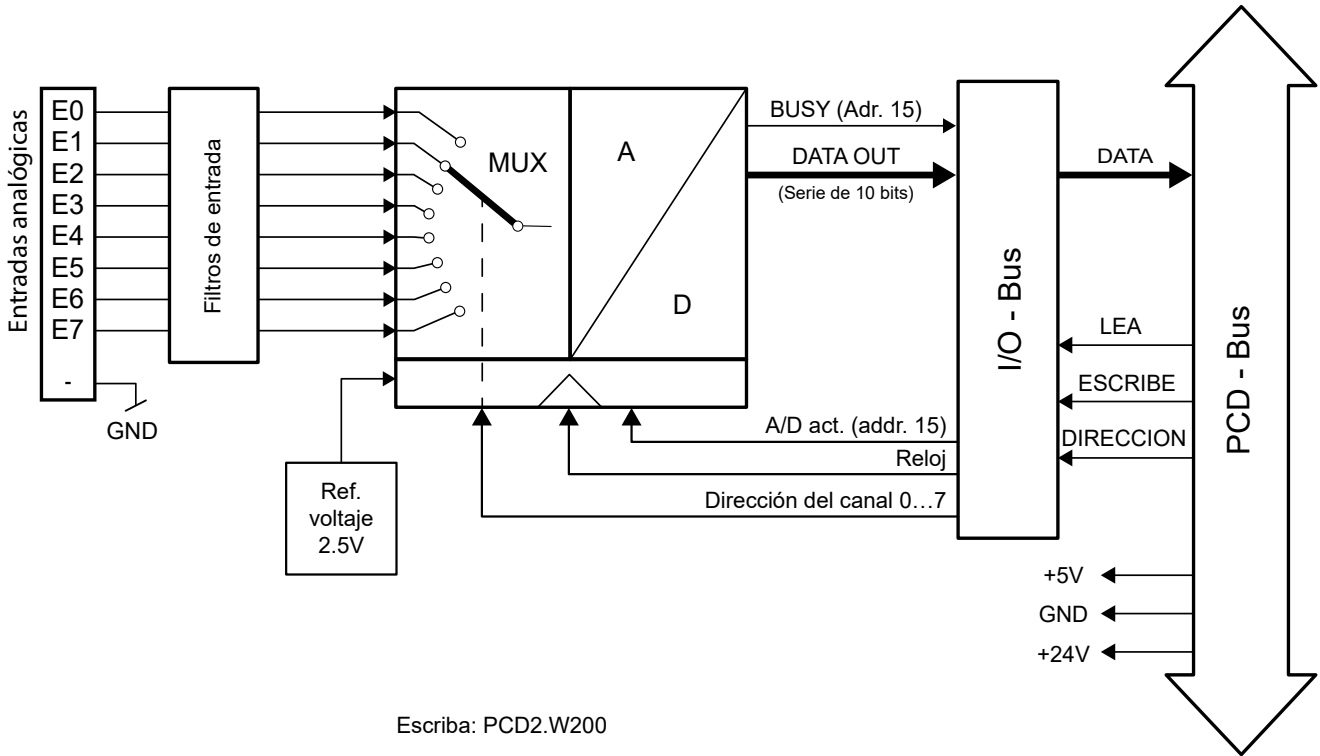


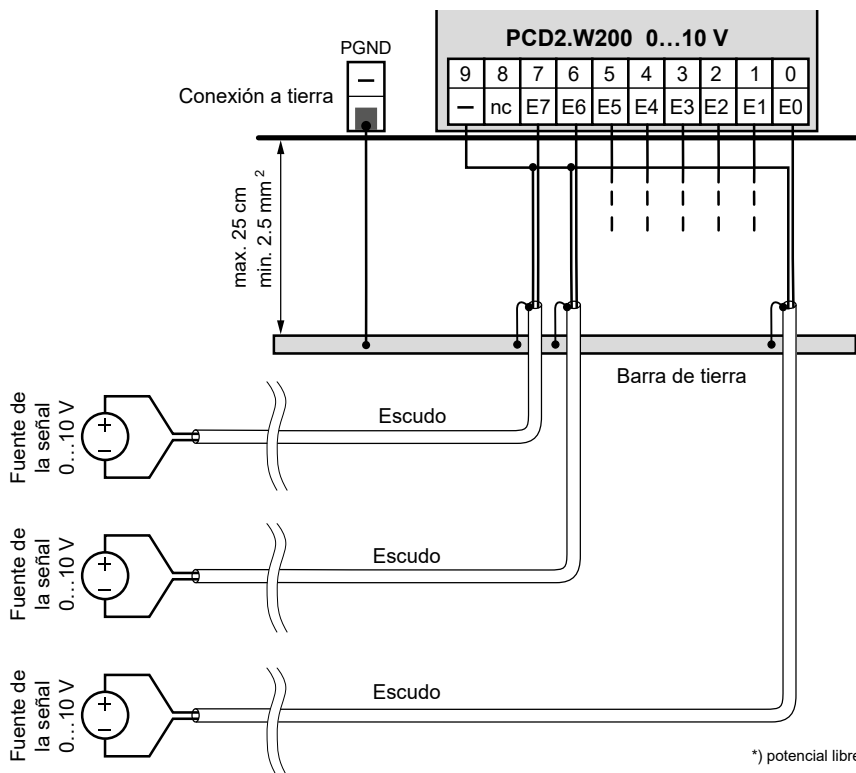
Diagrama de bloques



Concepto de conexión para entrada de tensión

Las señales de entrada se conectan directamente al bloque de bornes de 10 polos (E0...E7). Para acoplar el menor número posible de interferencias en las líneas de los módulos, la conexión debe realizarse según el principio que se explica a continuación.

Conector para 0...10 V



- Los potenciales de referencia del origen de la señal se deben cablear a un repartidor GND común (unir "-" y "COM"). Para obtener resultados de mediciones óptimos, se debe evitar toda conexión a una barra de puesta a tierra.
- En caso de que se utilicen cables blindados, es imprescindible que el blindaje esté unido a una barra de puesta a tierra.
- Las señales de entrada con polaridad incorrecta falsean significativamente las mediciones en los demás canales.

Configuración

Saia PG5® Controls Suite

| Sistema PCD | Evaluación | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|----------------|--|-------------|---|--------------------------|--|---------------------------|---|---------------------------|---|----------------------|--|-----------------------|----|------------|----------|-----------------|---|-------------------------|--|---------------|-------------------------|-----------------------|---|-----------------------|-------|-------------------------|--|---------------|-------------------------|-----------------------|---|-----------------------|-------|-------------------------|--|---------------|-------------------------|-----------------------|---|-----------------------|-------|-------------------------|--|---------------|-------------------------|-----------------------|---|-----------------------|-------|-------------------------|--|---------------|-------------------|-----------------------|---|-----------------------|------|-------------------------|--|---------------|-------------------|-----------------------|---|-----------------------|------|-------------------------|--|---------------|-------------------|-----------------------|---|-----------------------|------|-------------------------|--|---------------|--------------------|-----------------------|---|-----------------------|------|
| Classic | <p>El firmware realiza la evaluación. El firmware lee los valores correspondientes de la configuración del dispositivo o de red</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>Properties Slot 0 : PCD2.W200, 8 Analogue Inputs, 0..+10V</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2">General</td></tr> <tr><td>BaseAddress</td><td>0</td></tr> <tr><td colspan="2">Power Consumption</td></tr> <tr><td>Power Consumption 5V [mA]</td><td>8</td></tr> <tr><td>Power Consumption V+ [mA]</td><td>5</td></tr> <tr><td colspan="2">Media Mapping</td></tr> <tr><td>Media Mapping Enabled</td><td>No</td></tr> <tr><td>Media Type</td><td>Register</td></tr> <tr><td>Number Of Media</td><td>8</td></tr> <tr><td colspan="2">Analogue Input 0</td></tr> <tr><td>Input 0 Range</td><td>0..10V in mV resolution</td></tr> <tr><td>Minimum Value Input 0</td><td>0</td></tr> <tr><td>Maximum Value Input 0</td><td>10000</td></tr> <tr><td colspan="2">Analogue Input 1</td></tr> <tr><td>Input 1 Range</td><td>0..10V in mV resolution</td></tr> <tr><td>Minimum Value Input 1</td><td>0</td></tr> <tr><td>Maximum Value Input 1</td><td>10000</td></tr> <tr><td colspan="2">Analogue Input 2</td></tr> <tr><td>Input 2 Range</td><td>0..10V in mV resolution</td></tr> <tr><td>Minimum Value Input 2</td><td>0</td></tr> <tr><td>Maximum Value Input 2</td><td>10000</td></tr> <tr><td colspan="2">Analogue Input 3</td></tr> <tr><td>Input 3 Range</td><td>0..10V in mV resolution</td></tr> <tr><td>Minimum Value Input 3</td><td>0</td></tr> <tr><td>Maximum Value Input 3</td><td>10000</td></tr> <tr><td colspan="2">Analogue Input 4</td></tr> <tr><td>Input 4 Range</td><td>10 Bit resolution</td></tr> <tr><td>Minimum Value Input 4</td><td>0</td></tr> <tr><td>Maximum Value Input 4</td><td>1023</td></tr> <tr><td colspan="2">Analogue Input 5</td></tr> <tr><td>Input 5 Range</td><td>10 Bit resolution</td></tr> <tr><td>Minimum Value Input 5</td><td>0</td></tr> <tr><td>Maximum Value Input 5</td><td>1023</td></tr> <tr><td colspan="2">Analogue Input 6</td></tr> <tr><td>Input 6 Range</td><td>10 Bit resolution</td></tr> <tr><td>Minimum Value Input 6</td><td>0</td></tr> <tr><td>Maximum Value Input 6</td><td>1023</td></tr> <tr><td colspan="2">Analogue Input 7</td></tr> <tr><td>Input 7 Range</td><td>User defined range</td></tr> <tr><td>Minimum Value Input 7</td><td>0</td></tr> <tr><td>Maximum Value Input 7</td><td>1000</td></tr> </table> <p>Number Of Media Number of media (register) used to map the 8 analogue values.</p> </div> | General | | BaseAddress | 0 | Power Consumption | | Power Consumption 5V [mA] | 8 | Power Consumption V+ [mA] | 5 | Media Mapping | | Media Mapping Enabled | No | Media Type | Register | Number Of Media | 8 | Analogue Input 0 | | Input 0 Range | 0..10V in mV resolution | Minimum Value Input 0 | 0 | Maximum Value Input 0 | 10000 | Analogue Input 1 | | Input 1 Range | 0..10V in mV resolution | Minimum Value Input 1 | 0 | Maximum Value Input 1 | 10000 | Analogue Input 2 | | Input 2 Range | 0..10V in mV resolution | Minimum Value Input 2 | 0 | Maximum Value Input 2 | 10000 | Analogue Input 3 | | Input 3 Range | 0..10V in mV resolution | Minimum Value Input 3 | 0 | Maximum Value Input 3 | 10000 | Analogue Input 4 | | Input 4 Range | 10 Bit resolution | Minimum Value Input 4 | 0 | Maximum Value Input 4 | 1023 | Analogue Input 5 | | Input 5 Range | 10 Bit resolution | Minimum Value Input 5 | 0 | Maximum Value Input 5 | 1023 | Analogue Input 6 | | Input 6 Range | 10 Bit resolution | Minimum Value Input 6 | 0 | Maximum Value Input 6 | 1023 | Analogue Input 7 | | Input 7 Range | User defined range | Minimum Value Input 7 | 0 | Maximum Value Input 7 | 1000 |
| General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BaseAddress | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Consumption | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Consumption 5V [mA] | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Consumption V+ [mA] | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media Mapping | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media Mapping Enabled | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Media Type | Register | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number Of Media | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 0 Range | 0..10V in mV resolution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 0 | 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 1 Range | 0..10V in mV resolution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 1 | 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 2 Range | 0..10V in mV resolution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 2 | 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 3 Range | 0..10V in mV resolution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 3 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 3 | 10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 4 Range | 10 Bit resolution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 4 | 1023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 5 Range | 10 Bit resolution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 5 | 1023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 6 Range | 10 Bit resolution | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 6 | 1023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analogue Input 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Input 7 Range | User defined range | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum Value Input 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Value Input 7 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alternativa | <p>Existe una FBox "PCD2/3.W2" para la evaluación.</p> <p>FBox para PCD2.W200 (Entradas 0...7 seleccionables)</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px;"> <p>PCD2/3.W2</p> <p>in0</p><p>in1</p><p>in2</p><p>in3</p><p>in4</p><p>in5</p><p>in6</p><p>in7</p> <p>Añadir I80</p> </div> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px;"> <p>PCD2/3.W2</p> <p>in0</p> <p>Añadir I16</p> </div> </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Watchdog: El watchdog puede influir en el módulo, si se utiliza en la dirección básica 240.
Para más información, consulte el capítulo "A4 Hardware Watchdog" del documento "Manual de módulos 27-600 EA para PCD1 / PCD2 y PCD3", donde se describe el uso correcto del watchdog con componentes PCD.



Los módulos de entrada/salida y los bloques de bornes de entrada/salida solo pueden retirarse o insertarse cuando el Saia PCD® está sin tensión. El suministro de tensión externo de los módulos +24 V también debe desconectarse.



Encontrará más información en el documento: "Manual de módulos E/A 27-600 para PCD1 & PCD2 y PCD3"

**PELIGRO**

Solo un electricista puede instalar este aparato; de lo contrario, existe peligro de incendio o de descarga eléctrica.

**ADVERTENCIA**

El producto no está diseñado para ser utilizado en aplicaciones donde la seguridad es esencial. Utilizarlo en situaciones en las que la seguridad es esencial no es seguro.

**ADVERTENCIA**

El aparato no es adecuado para la protección contra explosiones ni para las aplicaciones que se descartan en el Capítulo 161010 EN.

ADVERTENCIA - Indicaciones de seguridad

Se debe respetar la tensión nominal antes de poner en marcha el aparato (consultar placa de características). Asegúrese de que los cables de conexión no están dañados y están libres de tensión durante el cableado del aparato.

No se deben poner en funcionamiento aparatos dañados.

**NOTA**

Para evitar humedad en el aparato a causa de la condensación, el aparato debe aclimatarse a la temperatura ambiente durante aprox. media hora antes de conectarlo.

**LIMPIEZA**

Los módulos pueden limpiarse, sin tensión, con un paño seco o humedecido con una solución jabonosa. En ningún caso se podrán utilizar sustancias corrosivas o disolventes para la limpieza.

**MANTENIMIENTO**

Este aparato no necesita mantenimiento.

En caso de daños en el aparato, el usuario no deberá realizar ningún tipo de reparación.

Se deben cumplir y conservar las instrucciones de uso (hoja técnica).

Se deben entregar las instrucciones (hoja técnica) a usuarios futuros.

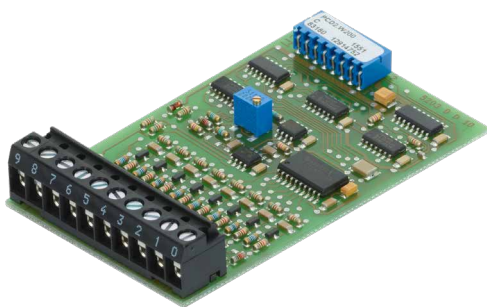


Directiva de Residuos de Aparatos Eléctricos y Electrónicos 2012/19/CE

Cuando termine la vida útil del producto, se debe depositar el embalaje y el producto en el correspondiente centro de reciclaje. No se debe depositar el aparato en el contenedor de basura general. No se debe quemar el aparato.



Marca de conformidad EAC para exportación de maquinaria a Rusia, Kazajistán y Bielorrusia.



PCD2.W200



4 405 4847 0

Datos del pedido

| Tipo | Descripción breve | Descripción | Peso |
|-----------|---|--|------|
| PCD2.W200 | 8 entradas analógicas 0...10 V, 10 bits | Incluye: módulo de entrada analógico, 8 canales, resolución 10 bits, alcance 0...10 V, (los canales no están separados), conexión con bornes de resorte insertables, tipo de conector L (4 405 4847 0) | 35 g |

Datos del pedido, accesorios

| Tipo | Descripción breve | Descripción | Peso |
|--------------|--------------------|--|------|
| 4 405 4847 0 | Tipo de conector L | Bloque de terminales de tornillo con 10 contactos hasta 1,5 mm ² para el módulo de E/S, inscripción 0...9 | 17 g |

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 www.saia-pcd.com
 support@saia-pcd.com | www.sbc-support.com

Honeywell | Partner Channel