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Harmony Analog

Signal Conditioner
Voltage/Current Transducer

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Harmony

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Content

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Signal Conditioner
Voltage/current Transducer

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Presentation

In industrial automation, providing accurate, consistent, and robust signal transmission is vital for effective measurement, monitoring, and control. The Harmony Analog offers a vital role by providing robust and resilient signal conversion and conditioning capabilities. The range includes a comprehensive portfolio of signal conditioners and transducers designed to convert analog signals, temperature inputs, and electrical measurements into standardized analog outputs. These devices are engineered to create a seamless interface between field-level sensors and automation platforms, providing dependable signal conditioning and transmission across a wide range of industrial applications.

Purpose & Overview

The Harmony Analog range is engineered to provide robust signal transmission in industrial automation. These devices are:

- Convert various input types—such as temperature, analog signals, electrical current, and voltage—into standardized analog signals.
- Offer robust signal isolation, high measurement accuracy, with easy installation and commissioning features.
- Compact form factors of 6.2 mm and 22.5 mm, with standard and universal configurable settings

The design helps to ensure dependable performance even in demanding environments, making them a practical choice for better reliability signal transmission where space, precision, and flexibility matter.

Applications

Harmony Analog modules are well-suited for a wide range of industrial processes and infrastructure applications, including:

- Various process industries: Monitoring and converting signals from sensors measuring temperature, pressure, and flow rate.
- Water & Wastewater: Supporting level detection, flow control, and pump management.
- Energy & Utilities: Integrating electrical measurements into control systems for power distribution and monitoring.

Overview

Harmony Analog offers a versatile range of modules for signal conversion and conditioning. Products can be classified into 3 main categories:

- **Analog Signal Conditioner (RMC1/RMC2)** – Analog signals can be converted, duplicated and conditioned.
- **Temperature Signal Conditioner (RMPT/RMTC)**– Compatible with RTDs and thermocouples for temperature signal conversion and conditioning.
- **Voltage/Current Transducer (RMCV/RMCA)** – Convert electrical voltage or current into analog signals.

Harmony Analog range is designed to provide robust signal conditioning and transmission with ease of use, high flexibility, performance and accuracy, even operating in challenging industrial harsh environments.

Harmony Analog

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Key features

- **Compact footprint:** Slim DIN rail mounting (6.2 mm or 22.5 mm) adds valuable panel space.
- **Effortless installation & commissioning**: Optimized wiring layout and intuitive LED indicators will streamline setup and diagnostics.
- **Flexible configuration:** Universal product design with DIP-switch settings for quick adaptation to various input/output needs.
- **Reliablity & certification:** Complies with international standards (cULus, DNV) and operates across a wide temperature range up to 70°C for demanding conditions.

Certifications & Compliance

Harmony Analog products meet the following international standards, helps ensuring robust and robust performance for signal conditioning and transmission.

- cULus listed
- DNV certified
- CE, UKCA marked
- RoHS and REACH compliant

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Product Types		***Analog Signal Conditioner***				***Temperature Signal Conditioner***		***Transducer***	
		Standard Analog (Power repeater)	*Standard Analog*	*Universal Analog*	*Universal Analog (Signal duplicator)*	*Universal Temperature (RTD)*	*Universal Temperature (Thermocouple)*	*Universal Current*	*Universal Voltage*
									
Input signal	**Temperature Sensor Type**	–	–	–	–	Pt100, Pt1000 Cu50, Cu100	Type K, J, B, E, N, R, S, T, L	–	–
	Voltage	–	0(2)…10V	0(2)…10V 0(1)…5V	0(2)…10V 0(1)…5V	–	–	–	0…500 V (AC/DC)
	Current	0(4)…20mA	–	0(4)…20mA	0(4)…20mA	–	–	0…15 A(AC/DC)	–
Output signal	**Voltage**	–	–	0(2)…10V; 0(1)…5V	2×0(2)…10V; 2×0(1)…5V	0(2)…10V; 0(1)…5V	0(2)…10V; 0(1)…5V	0(2)…10V; 0(1)…5V	0(2)…10V; 0(1)…5V
	Current	0(4)…20mA	0(4)…20mA	0(4)…20mA	2×0(4)…20mA	0(4)…20mA	0(4)…20mA	0(4)…20mA	0(4)…20mA
Rated supply voltage		⎓ 24V + 30%/-25%							
Accuracy		< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1 %	< 0.1 %	< 0.2%	< 0.2%
Signaling LED		PWR LED		PWR / H / L LED					
Approvals		cULus, DNV, CE							
Width		6.2mm						22.5mm	
Type		**RMC1AABD**	**RMC1VABD**	**RMC1UUBD**	**RMC2UUBD**	**RMPT1UUBD**	**RMTC1UUBD**	**RMCA1UUBD**	**RMCV1UUBD**
Pages		6				7		8	

Presentation

The Harmony Analog range

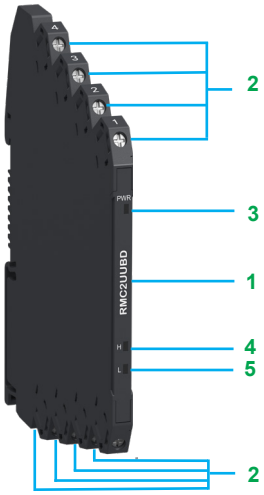
The RMC1/ RMC2 modules in Harmony Analog range are designed to convert analog signals measurement into compatible analog signals for seamless integration with industrial automation process control systems.

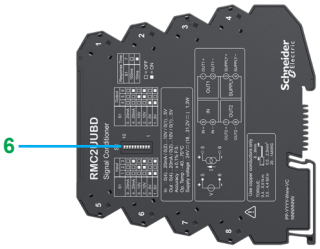
- Standard and Universal module with fixed and configurable input and output analog signals
- Help for guarded isolation between the input, output and power supply
- Precision measurement control with high accuracy <0.1%
- Wide operating temperature ranges from -40 to 70°C
- The use cases include analog signal conversion, isolation, or duplication

Description for RMC1 and RMC2

Harmony Analog signal conditioner have the following on their front panel, depending on the model:

1 Product part number
2 Screw terminals
3 PWR – Green LED indicator for power
4 H – Red LED indicator for high input error
5 L – Red LED indicator for low input error
6 DIP switch for configuration





RMC1AABD

RMC1VABD

RMC1UUBD

RMC2UUBD

References

Analog signal conditioner

Type	Input Signal	Output signal	Reference	Weight kg / lb
Analog signal conditioner	0(4)...20mA	0(4)...20mA	RMC1AABD	*0.07 / 0.154*
	0(2)...10V	0(4)…20 mA	RMC1VABD	*0.07 / 0.154*
	0(4)...20 mA 0(2)...10 V 0(1)...5 V	0(4)...20 mA 0(2)...10 V 0(1)...5 V	RMC1UUBD	*0.07 / 0.154*
	0(4)...20 mA 0(2)...10 V 0(1)...5 V	2X 0(4)...20 mA 2X 0(2)...10 V 2X 0(1)...5 V	RMC2UUBD	*0.07 / 0.154*

Presentation

The RMPT and RMTC modules are engineered to convert temperature measurement signals - typically from RTDs or thermocouples into robust analog output signals such as 4...20mA, enabling seamless integration with process automation systems.

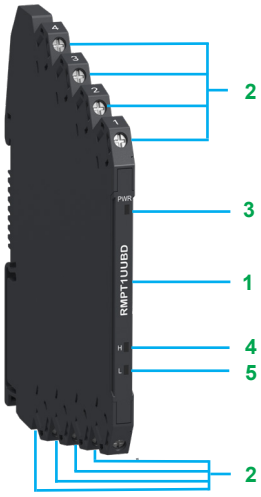
- RMPT supports temperature measurement of RTDs including Pt100, Pt1000, Cu50 and Cu100.
- RMTC supports temperature measurement of thermocouple types: K, J, B, E, N, R, S, T, L.

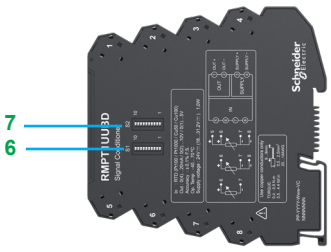
With configurable DIP switches, these modules offer high flexibility in setting temperature range to meet diverse application requirements.

Their ultra-slim 6.2mm width helps to ensure a space-saving installation, while integrated diagnostic LED indicators provide clear visual status updates, enabling fast and efficient troubleshooting and maintenance.

Description for RMTC and RMPT modules

1 Product part number
2 Screw terminals
3 PWR – Green LED indicator for power
4 H – Red LED indicator for high input error
5 L – Red LED indicator for low input error
6 S1-DIP switch for configuration
7 S2-DIP switch for configuration





RMPT1UUBD

RMTC1UUBD

References

Temperature Signal Conditioner

Type	Temperature sensor type	Output signal	Reference	Weight kg *lb*
Temperature signal conditioner	RTDs Pt100, Pt1000, Cu50, Cu100	0(4)...20mA 0(2)...10V 0(1)...5V	RMPT1UUBD	*0.07* *0.154*
	Thermocouples Type K, J, B, E, N, R, S, T, L	0(4)...20mA 0(2)...10V 0(1)...5V	RMTC1UUBD	*0.07* *0.154*

Presentation

The RMCA and RMCV modules in the Harmony Analog range are designed to convert electrical current or voltage measurement from distributed electrical power to analog signal for interfacing into other control equipment.
It supports indirect measurement of the following electrical parameters:
- Current measurement (RMCA) range from 0...15A AC/DC
- Voltage measurement (RMCV) range from 0...500V AC/DC

Both the modules are equipped with configurable DIP switches, enabling flexible adjustment of electrical parameter ranges to suit different customer application requirements.
Designed with user convenience in mind, these modules feature an intuitive layout that enhances wiring accessibility and includes diagnostic LED indicators for fast, straightforward commissioning and troubleshooting.

Description for RMCA and RMCV

1 Product part number
2 Screw terminals
3 PWR – Green LED indicator for power
4 H – Red LED indicator for high input error
5 L – Red LED indicator for low input error
6 DIP switch for configuration

References

Voltage/current Transducer

Type	Input voltage/ current range	Output signal	Reference	Weight kg *lb*
Current transducer	0...15A (AC/DC)	0(4)...20mA 0(2)...10V 0(1)...5V	RMCA1UUBD	0.10 *0.264*
Voltage transducer	0...500V (AC/DC)	0(4)...20mA 0(2)...10V 0(1)...5V	RMCV1UUBD	0.10 *0.264*

RMCA1UUBD

RMCV1UUBD

Product reference index

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