









MSI (Modular Smart Interface)

DEWETRON's MSI (Modular Smart Interface) brings many advantages and an expanded level of flexibility for many systems.

MSIs expand the functionality of many amplifier modules and e.g. enable you to use a bridge amplifier for measuring also ICP®, Thermocouple, Pt100 to Pt2000, charge or voltage up to 200 V.

As soon as the MSI is connected to a voltage or bridge amplifier module of DAQP or MDAQ series, the DEWESoft software recognizes this and automatically modifies the amplifier setup - for example a voltage input is changed to ICP® input - so that user errors are avoided and the correct scaling can be directly applied. All MSIs are the size of a DSUB-9 housing, which contains the electronics as well as the sensor connector.

Modular Smart Interfaces (MSIs) to connect various sensors

Modular Smart Interfaces for MDAQ and DAQP modules							
	MDAQ-SUB-STG-D	MDAQ-SUB-BRIDGE-D	MDAQ-SUB-V-200-D	DAQP-STG	DAQP-BRIDGE-A *	DAQP-BRIDGE-B	DAQP-LV-D
MSI-BR-ACC 	✓	✓	-	✓	-	-	-
	Isotron (constant current powered) adapter for MDAQ-SUB-BRIDGE / -STG modules with DB9 connector Excitation current 4 mA at 21 V, High pass filter 1.5 Hz, BNC connector Bandwidth and ranges are defined by connected amplifier Automatic adapter identification						
MSI-BR-V-200 	✓	✓	-	✓	-	-	-
	200 V input adapter for MDAQ-SUB-BRIDGE / -STG modules with DB9 connector Differential input configuration, BNC connector Bandwidth and ranges are defined by connected amplifier Automatic adapter identification						
MSI-BR-RTD 	✓	✓	-	not needed	-	-	-
	Pt100, Pt200, Pt500, Pt1000 and Pt2000 adapter for MDAQ-SUB-BRIDGE / -STG modules with DB9 connector 2, 3 and 4 wire connection methods, 5-pin Binder 710 series connector Automatic adapter identification						
MSI-BR-CH-50 	✓	✓	-	✓	-	-	-
	Charge input interface for DAQP-STG and MDAQ-SUB-BRIDGE / -STG with DB9 connector Range up to 50000 pC, AC coupled with 0.07 Hz, BNC signal connection Max. 100 kHz bandwidth (dependent on the max. bandwidth of the amplifier) Automatic adapter identification						
MSI-BR-TH-x 	✓	✓	-	✓	✓	✓	-
	isolated TC sensor			any TC sensor		isolated TC sensor	
	Thermocouple type K / J / T adapter for DAQP-BRIDGE-x and MDAQ-SUB-BRIDGE / -STG modules with DB9 connector For use with isolated thermocouple sensors only ! (except in combination with DAQP-BRIDGE-A*) High accuracy cold junction reference measurement, 1 m thermo cable with Mini TC connector Automatic adapter identification						
MSI-V-ACC 	-	-	✓	-	-	-	✓
	Isotron (constant current powered) adapter for DAQP-V-x and MDAQ-SUB-V-200 modules with DB9 connector Excitation current 4 mA at 21 V, High pass filter 1.5 Hz, BNC connector Bandwidth and ranges are defined by connected amplifier Automatic adapter identification						
MSI-V-RTD 	-	-	✓	-	-	-	✓
	Pt100, Pt200, Pt500 and Pt1000 adapter for DAQP-V-x and MDAQ-SUB-V-200 modules with DB9 connector 2, 3 and 4 wire connection methods, 5-pin Binder 710 series connector Automatic adapter identification						
MSI-V-CH-50 	-	-	✓	-	-	-	✓
	Charge input interface for DAQP-LV, MDAQ-SUB-V-200 modules with DB9 connector Range up to 50000 pC, AC coupled with 0.07 Hz, BNC signal connection Max. 100 kHz bandwidth (dependent on the max. bandwidth of the amplifier) Automatic adapter identification						

