

# DAQP-DMM-SC / DAQP-I-SC Module

## Isolated high voltage and current amplifiers

- Voltage input:  $\pm 10\text{ V}$ ,  $\pm 40\text{ V}$ ,  $\pm 100\text{ V}$ ,  
 $\pm 200\text{ V}$ ,  $\pm 400\text{ V}$  and  $\pm 1000\text{ V}$
- Current input:  $\pm 0.1\text{ A}$ ,  $\pm 1\text{ A}$
- Ranges and filter: Software selection
- Isolation: up to  $1.5\text{ kV}_{\text{RMS}}$
- Signal connection: Screw connectors



## Module specifications

DEWETRON voltage and current amplifiers		
	DAQP-DMM-SC	DAQP-I-SC
Range	$\pm 10$ , $\pm 40$ , $\pm 100$ , $\pm 200$ , $\pm 400$ , $\pm 1000\text{ V}$	0.1, 1 A
Range selection	Software	Software
DC accuracy	$< \pm 0.1\%$	$< \pm 0.1\%$
Input impedance	$10\text{ M}\Omega (\pm 0.1\%)$	$0.1\ \Omega (\pm 0.1\%)$
Bandwidth (-3 dB)	$> 20\text{ kHz}$	50 kHz
Filter	10, 100 Hz, 1, 3, 20 kHz	10, 100 Hz, 1, 3, 50 kHz
Filter selection	Software	Software
Filter characteristics	Butterworth	Butterworth
Input type	Differential	Differential
Isolation voltage	$1.5\text{ kV}_{\text{RMS}}$	$1\text{ kV}_{\text{RMS}}$
Overvoltage protection	$1000\text{ V}_{\text{RMS}}$	$500\text{ V}_{\text{DC}} / 350\text{ V}_{\text{RMS}}$
Output signal	$\pm 5\text{ V}$	$\pm 5\text{ V}$
RS-485 interface	Yes	Yes
Power supply	$\pm 9\text{ V}$	$\pm 9\text{ V}$
Power consumption	typ. 0.65 W	typ. 0.85 W
Sensor connection	Screw connector	Screw connector

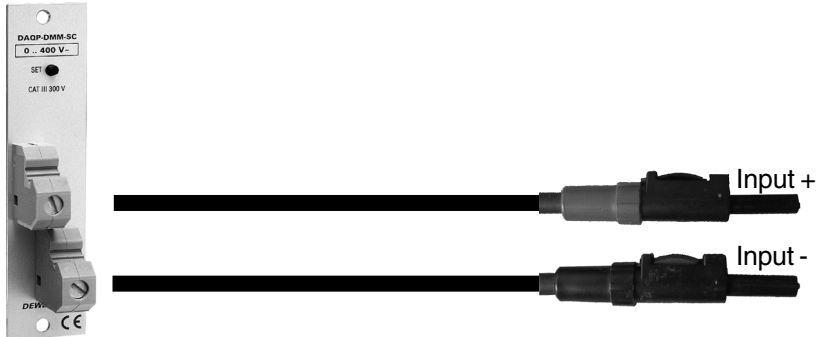
## Input range and filter selection

Both amplifiers have one push button. It is used to set the module address within the DEWEConfig or DEWESoft software packages.

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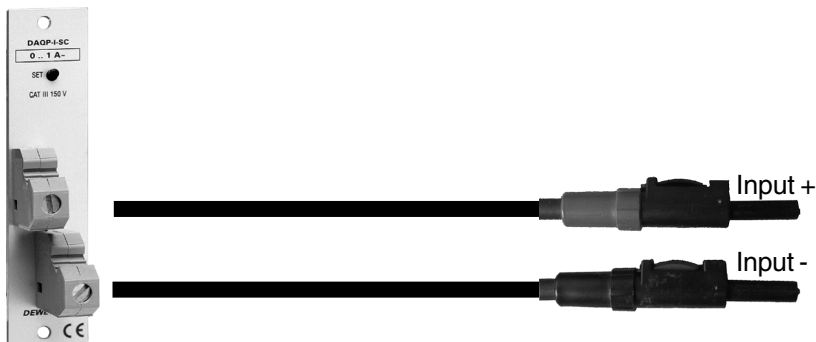
## Signal connection

DAQP-DMM-SC module: Voltage signal input



***Voltage measurement up to  $\pm 1000$  V  
only with safety banana plug cords!***

DAQP-I-SC module: Current signal input



***Dangerous voltage levels to ground may appear  
at current measurements!***