Storm Extension Modules

Extension modules for base Storm terminal units

→ **universal application**
→ **special functions**
→ **affordable price**

Storm extension modules extend the number of inputs and outputs available on the Storm base units. By using a suitable combination of base units and corresponding extension modules, it is possible to create a terminal configuration that meets the customer's specific use and requirements. Expansion modules do not contain their own processor. They are operated by the base unit's processor.

→ Basic Characteristics

- extension modules for use with the Storm base units only
- extension modules are intended primarily for the extension of digital inputs and outputs
- some extension modules also offer extension of analogue inputs for voltage and current measurement
- extension module input and output parameters match base unit parameters
- special functions for backup battery monitoring and management
- special input function for monitoring cable loop status
- for larger production runs, it is possible to design and deliver custom modification or modules with special custom functions

→ Typical Use

Storm-52, 53

- used to significantly increase the number of digital inputs and outputs
- Storm-52 module also increases the number of analogue inputs
- some Storm-52 digital relay outputs can be populated with a special power relay that permits direct control of switching devices

Storm-55

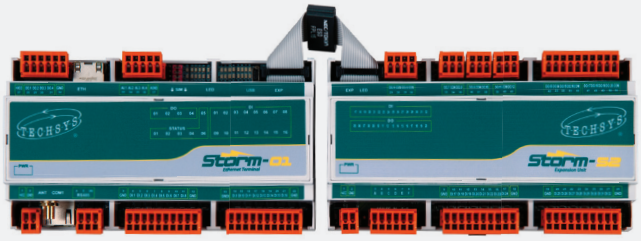
- intended for monitoring battery status and recharging
- combined with a base unit and a backup battery, works as a simple UPS
- also contains other digital inputs and outputs for universal use
- external panel with LED indication of input and output status can be connected to the module

Storm-57

- allows monitoring of cable loops
- module can be used to indicate the loop's normal or fault status

Storm-81

- extension module for measurement of AC networks
- for more information, see the separate catalogue sheet



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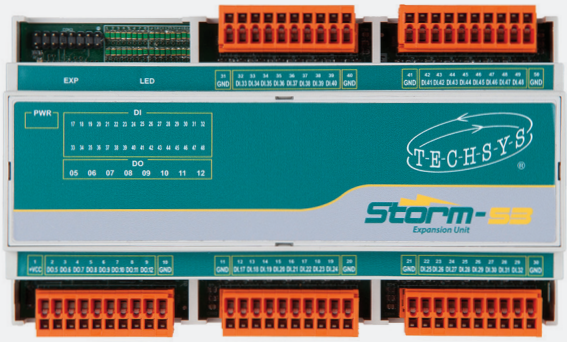
→ Technical Specification

Storm-52	
Digital inputs	16x opto-element, passive input
Digital outputs	16x relay with switching contact
Analog inputs	4x measurement 0-20 mA/10V
Build	9M width plastic case
Mounting	35 mm DIN rail
Protection	IP 20
Power supply	24 V DC
Maximum draw	200 mA
Typical draw	30 mA
Service temperature	-30 ÷ 70 °C
Max. ambient humidity	95 % without condensation
Weight	max. 250 g
Dimensions (w x h x d)	158 x 90 x 60 mm (9 modules)

Storm-53	
Digital inputs	32x opto-element, passive input
Digital outputs	8x transistor output
Build	9M width plastic case
Mounting	35 mm DIN rail
Protection	IP 20
Power supply	24 V DC
Maximum draw	250 mA
Typical draw	30 mA
Service temperature	-30 ÷ 70 °C
Max. ambient humidity	95 % without condensation
Weight	max. 250 g
Dimensions (w x h x d)	158 x 90 x 60 mm (9 modules)



Storm-55	
Digital inputs	8x opto-element, passive input
Digital outputs	6x relay with switching contact
Battery charger	27,5 V, current 2 A, can be modified per customer requirements
Build	6M width plastic case
Mounting	35 mm DIN rail
Protection	IP 20
Power supply	24 V DC
Service temperature	-30 ÷ 70 °C
Max. ambient humidity	95 % without condensation
Weight	max. 150 g
Dimensions (w x h x d)	105 x 90 x 60 mm (6 modules)

Storm-57	
Cable loop monitoring	2 x 8 inputs
Build	4M width plastic case
Mounting	35 mm DIN rail
Protection	IP 20
Power supply	48 V DC with galvanic separation
Typical draw	50 mA
Service temperature	-30 ÷ 70 °C
Max. ambient humidity	95 % without condensation
Weight	max. 75 g
Dimensions (w x h x d)	70 x 90 x 60 mm (4 modules)

Storm-81	
AC voltage measurement	4x input
AC current measurement	4x input
Build	6M width plastic case
Mounting	35 mm DIN rail
Protection	IP 20
Power supply	24 V DC
Typical draw	50 mA
Service temperature	-30 ÷ 70 °C
Max. ambient humidity	95 % without condensation
Weight	max. 210 g
Dimensions (w x h x d)	105 x 90 x 60 mm (6 modules)

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