

## Digital Configurable Output Module

The digital configurable output module also has six outputs. Like the digital output module with the rotary coding switch, it is available with optocoupler and relay outputs.

Unlike the modules with the rotary coding switch, however, the outputs are assigned using a software tool rather than a selector switch. Switch ES Power and the BDA are used as configuration software. Both tools feature a separate node - 'Config. Output Module' - in the navigation tree, which enables the outputs to be assigned the events in the table opposite using drop-down fields.

The first three module outputs can be assigned up to six events, which are ORed with the output. This triggers, for example, a type of group signal when the circuit-breaker is either in an overload excitation state or a phase unbalance warning is present.

The last three outputs can only be assigned one of the events directly.

Configuration events include status signals, warnings, tripped signals, setpoint violation signals, waveform buffer triggers, the active parameter set, and bits that can be addressed directly via PROFIBUS.

The module outputs can be set directly via the PROFIBUS-DP (e.g. from a PLC) using the PROFIBUS-DP bits, which are transmitted to byte position 13 via data set 69. Switchgear that is not directly communications capable can be integrated in a communications system in conjunction with the digital input module.

The status can be read via the input module, which means that a motorized drive could be switched on or off via the digital configurable output module. Many other applications are, however, also possible.

Unlike the digital output module with the rotary coding switch, a time delay cannot be added to the event. A setpoint can be output with a delay via the digital configurable output module,

### These events are available for the digital, configurable output module (part 1)

Status	Circuit-breaker on
	Circuit-breaker off
	Storage spring charged
	Ready to switch on
	Group warning
	Group trip
	PROFIBUS write protection active
	PROFIBUS communication OK
Alarms	Overload
	Overload in N-conductor
	Load shedding
	Load restore
	Ground-fault alarm
	Overtemperature
	ETU fault
	Phase unbalance - current
Trips	Overload (L)
	Short-time-delay short-circuit (S)
	Instantaneous short-circuit (I)
	Ground fault (G)
	Overload in neutral conductor
	Phase unbalance - current
	Phase unbalance - voltage
	Under frequency
	Over frequency
	Under voltage
	Over voltage
	Active power in normal direction
	Active power in reverse direction
	Total harmonic distortion - current
Total harmonic distortion - voltage	
Reversal of phase rotation direction	
PROFIBUS output bits	PROFIBUS bit 1
	PROFIBUS bit 2
	PROFIBUS bit 3
	PROFIBUS bit 4
	PROFIBUS bit 5
	PROFIBUS bit 6
Active parameter set	Parameter set A active
	Parameter set B active

**Table 2-17**

The events in this table (part 1) and the following table (part 2) are available on the **CubicleBUS**. These can be output via the configurable digital output module.

