

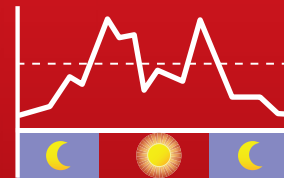
InteliCompact^{NT} SPtM



IC-NT CT-BIO7 INSIDE

NEW FEATURES

- ▶ Peak shaving
- ▶ Peak lopping
- ▶ High tariff avoidance
- ▶ Mains export limit
- ▶ 7 additional binary I/O



PRODUCT NEWS



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InteliCompact^{NT} SPtM – new features details

New InteliCompact^{NT} SPtM incorporating IC-NT CT-BIO7 provides several new important features.

Object load dependent autostart – peak shaving, peak lopping

The gen-set can start and stop automatically according to the object load. An automatic start will occur if the object load exceeds a given upper limit and remains exceeded for a given period of time. If the object load drops below a given lower limit, the gen-set will be stopped with the same delay period experienced during start. The gen-set load is controlled according to selected mode.

Parameters for object load dependent autostart:

- ▶ **Im CT Ratio** – defines mains current transformer ratio for current measuring input
- ▶ **PeakLevelStart** – load consumption level the gen-set has to start at. Load consumption is calculated (not directly measured) as a sum of gen-set and mains active power.
- ▶ **PeakLevelStop** – load consumption level at which the the gen-set has to stop
- ▶ **PeakAutS/S Del** – time period for which the condition for the „peak“ automatic start or stop must be valid

Mains export limit

Export Limit provides protection against power export to the mains. The function limits gen-set requested power to hold import power higher or equal to the setpoint Export kW.

Parameters for export limit:

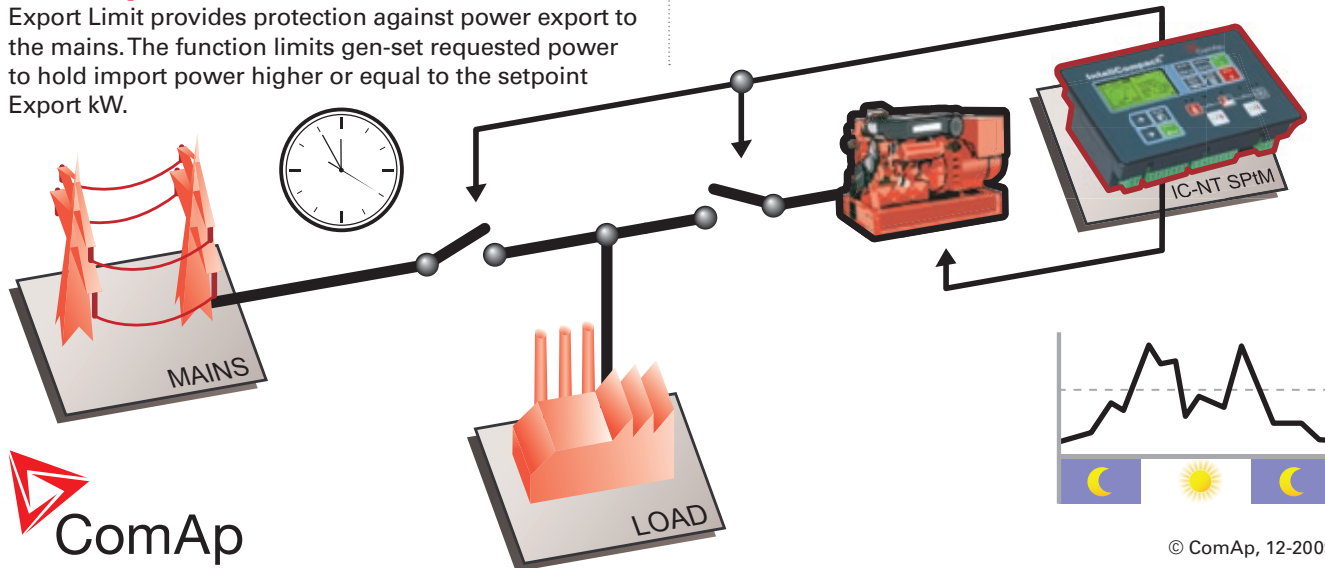
- ▶ **Im CT Ratio** – defines mains current transformer ratio for current measuring input
- ▶ **Export Limit** – enables protection against power export to the mains
- ▶ **Export kW** – defines max limit for mains export / import. Zero value means no export / import.

High tariff avoidance

During the high tariff hours the load is transferred to the gen-set and disconnected from mains. After the specified time period the load is transferred back to mains and the gen-set is stopped.

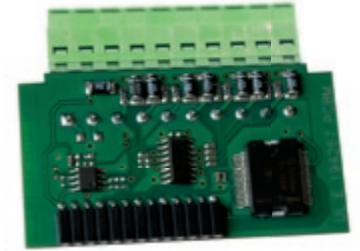
Parameters for High tariff avoidance:

- ▶ **Timer1Function (Timer2Function)** – specifies required timer function
- ▶ **Timer1Repeat (Timer2Repeat)** – defines timer event repetition
- ▶ **Timer1ONTime (Timer2ONTime)** – defines day time when timer output activates
- ▶ **Timer1Duration (Timer2Duration)** – specifies length of timer activation



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IC-NT CT-BIO7



IC-NT CT-BIO7 is a plug-in card. Through this card controller can accommodate one AC current (CT) measuring input and up to 7 binary inputs or outputs. In LiteEdit PC configuration tool (version 4.4 and higher) it is a simple process to choose if a particular I/O will be binary input or binary output.

Technical details:

- ▶ IC-NT CT-BIO7 plugs into IC-NT controller EXTENSION MODULE port.
- ▶ 2 dedicated pins of the plug-in card's terminal provides mains 1ph current measuring input
- ▶ 7 dedicated pins can be configured as binary inputs or outputs

Current measuring input

Number of inputs.....	1
Nominal input current (from CT).....	5 A
Load (CT output impedance)	< 0.1 Ω
Max measured current from CT	10 A
Current measurement tolerance...2% from Nominal current	
Max peak current from CT	150 A / 1s
Max continuous current	10 A

(All values in RMS)

Binary inputs

Number of inputs.....	7
Input resistance.....	4.7 kΩ
Input range	0-36 VDC
Voltage level for close contact indication	< 0.8 VDC (Logical 1)
Voltage level for open contact indication	> 2 VDC (Logical 0)
Max voltage level for open contact indication ..	8-36 VDC

The controller is available from December 2009. For controllers produced before this date it is possible to order the module separately.