



## HYDROGEMS – TRNSYS TYPE Updates

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### 2002.01.24

#### **TYPE102 – Version 1.1**

The units for INPUT#1 and OUTPUT#1 changed to Watts [W] from kilowatts [kW]. The internal calculations are (as before) on a kW-basis. Fixed by ØU.

### 2002.01.23:

#### **TYPE120 – Version 1.1**

NDEGS can now be set to zero. The units for INPUT#2, OUTPUT#1, and OUTPUT #6 changed to Watts [W] from kilowatts [kW]. The internal calculations are (as before) on a kW-basis. Fixed by ØU.

#### **TYPE160 – Version 4.1**

Bugs in FORMAT statements fixed. Fixed by ØU.

### 2002.08.19:

#### **TYPE185 – Version 2.1**

Three changes related full or empty battery were made: (1) STOP-statement when battery is getting full was removed, (2) Bug in the calculation of IQ (main reaction current) fixed, and (3) STOP-statement when battery is getting empty was removed. Proformas updated. Bug reported by R. Glöckner. Fixed by ØU.

### 2003.02.24:

#### **TYPE170 – Version 4.2**

A\_PEM check removed for RTCTMODE=2 (due to conflict with default value for A\_PEM in IISiBat proformas Type170b and Type170h). Bug reported by Fernando Rivas, Spain. Fixed by ØU.

### 2003.03.23:

#### **TYPE170 – Version 5.0**

New format for ERROR-statements (recommended by M. Kummert). Proformas updated. Clean-up of source code: (1) Unnecessary old code removed and (2) Lower limit on current density (0.1 mA/cm<sup>2</sup>) introduced. Fixed by ØU.

### 2003.03.30:

#### **TYPE164 – Version 4.0**

New format for ERROR-statements. Proformas updated. Bug reported by M. Kummert. Fixed by ØU.