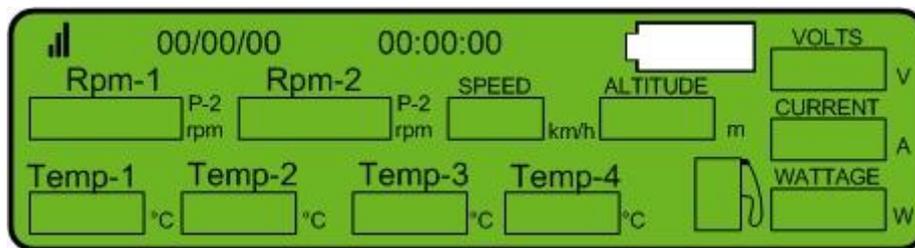# Telemetric Sensors EX Data Displays on the Screen of the Aurora 9 Transmitter with Transmitter Module Duplex TA EX

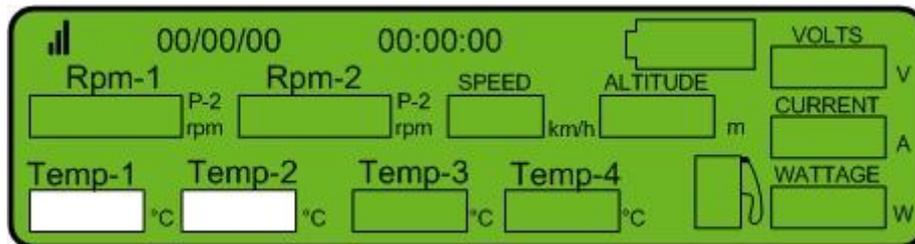*for Aurora FW-version from 1.07 to 1.09, for FW converter version from 0.01 to 0.04

Receiver Voltage
- The receiver voltage is always displayed after communication commencement between Duplex system receiver and transmitter module.
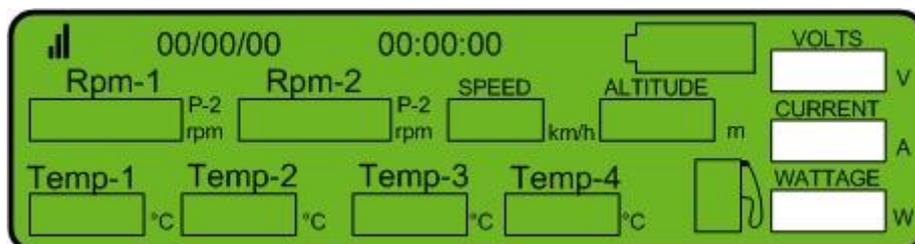

MT125 a MT300
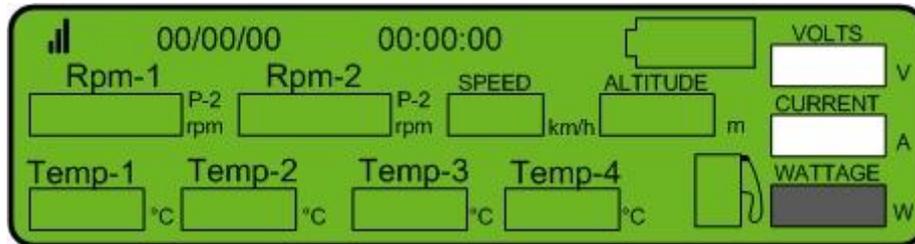- The temperature is displayed in positions „Temp-1" and „Temp-2" ranging from -40 to +215°C

MUI 30, 50, 75, 150, 200
- Voltage is displayed in position „VOLTS", current in position „CURRENT" and the actual power in position „WATTAGE". In order to display the current correctly the Aurora transmitter with current sensors MUI 30 and MUI 50 must be switched to type C50 and with all remaining sensors to type C200.
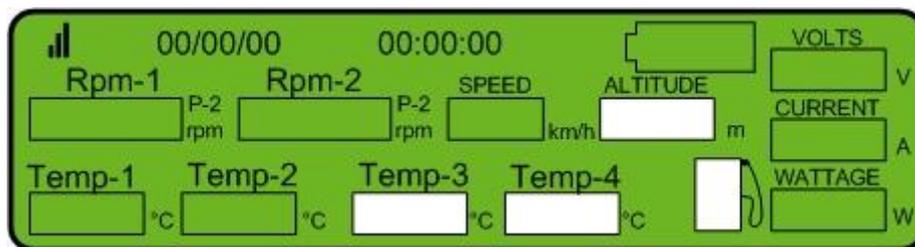
MU-3

- Displaying up to 3 voltages at position „VOLTS". At this position are all connected voltages displayed successively with the matching input displays at position „CURRENT" (inputs 1-3). In order to obtain on the Aurora transmitter the correct input display, the current sensor type C 200 must be set up. With this sensor are at the position „WATTAGE" <u>no parameter informations</u> available.
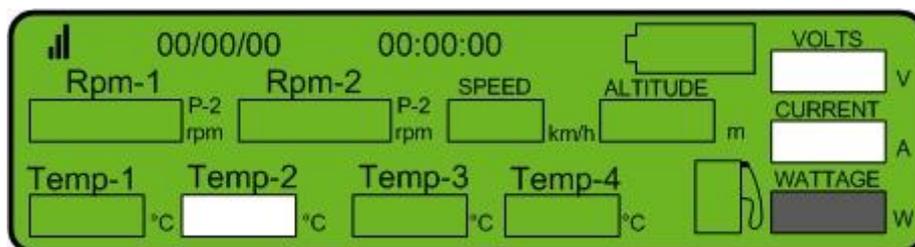

Vario

- The ascend/descend rates are separated into two parts -> „Temp-3", where the velocities are shown in integer numbers of m/s, and „Temp-4", where velocities are shown in tenths of m/s, whereby the positive sign + stands for ascending and the negative sign – for descending flight. The velocity is also shown at the position of the fuel-tank, where two scale divisions of four represent a stabilized value of ±0.3 m/s. A filled fuel tank represents ascending flight, an empty tank descending flight conditions. Relative altitude is shown at position „ALTITUDE" in a range from 0 m upwards.
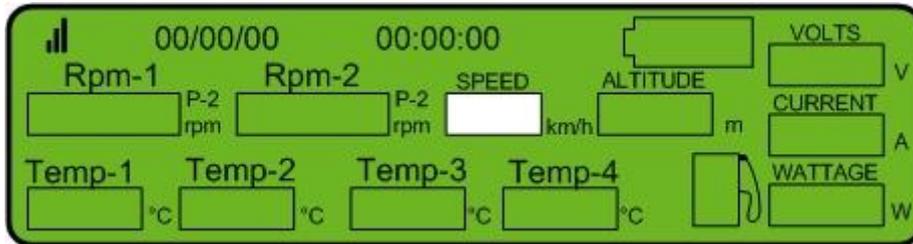

MaxBEC2d

- Voltages of connected inputs are successively shown at position „VOLTS", position „CURRENT" shows the locality of this input voltage, whereby input A represents input # 1 and input B the input # 2. In order to obtain on the Aurora transmitter the correct input display, the current sensor type C 200 must be set up. The temperature of the MaxBEC regulator is shown at position „Temp-2". With this sensor are at the position „WATTAGE" <u>no parameter informations</u> available.
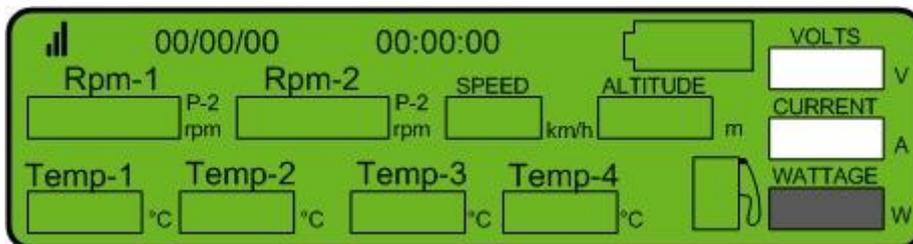
MSpeed

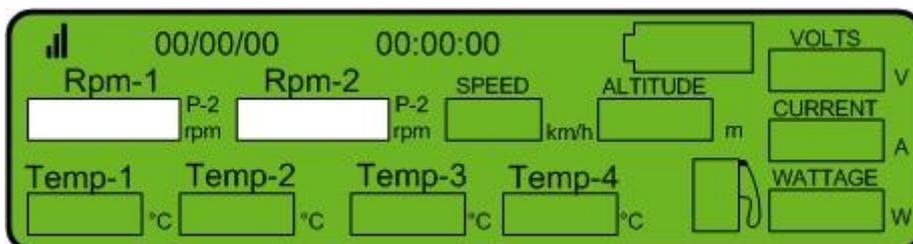- At position „SPEED" the indicated air speed in km/h is shown.

Muli 6s

- Depicts at position „VOLTS" the lowesr measured voltage and at position „CURRENT" the input number with the lowest measured voltage. In order to obtain on the Aurora transmitter the correct input display, the current sensor type C 200 must be set up. With this sensor are at the position „WATTAGE" no parameter informations available.
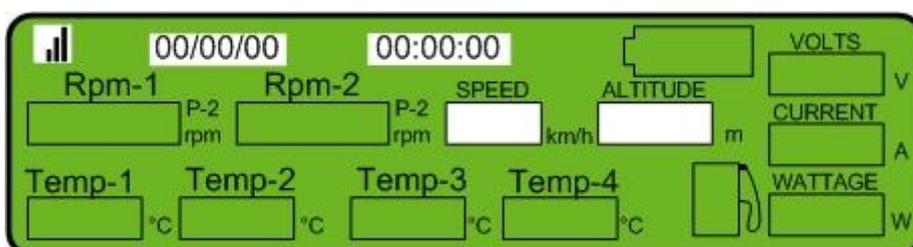

MRPM, MRPM-AC

- Revolutions per second are shown at positions „Rpm-1" and „Rpm-2". The transmitter module can remeber display positions of up to 10 different revolution counters.
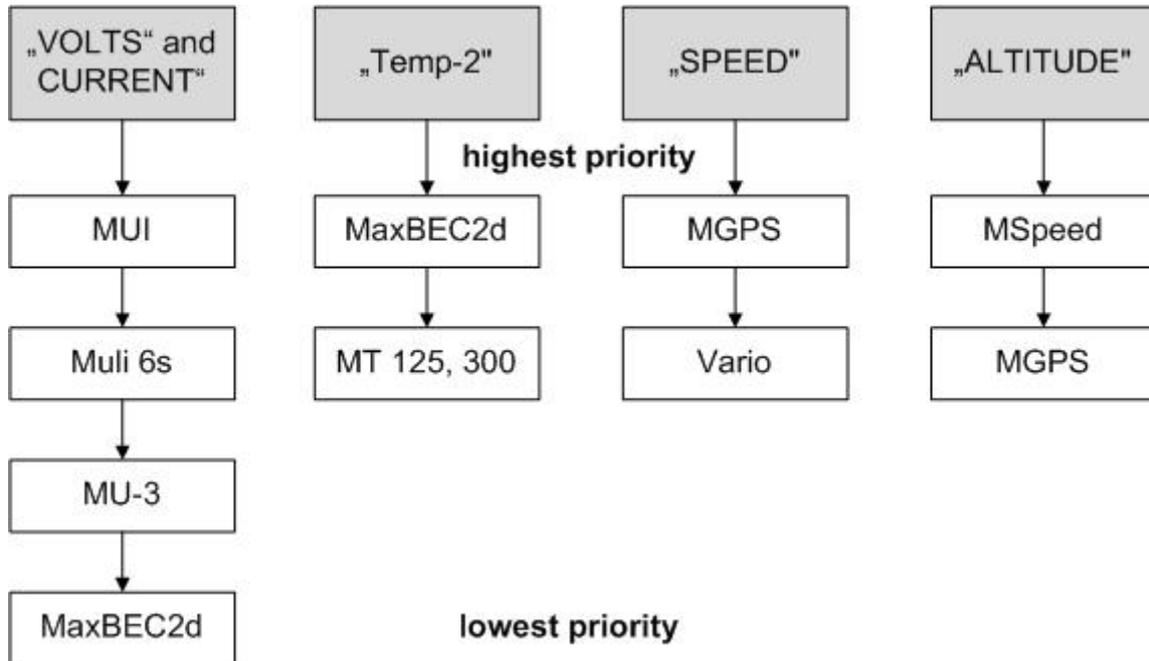

MGPS

- The GPS speed is shown at position „SPEED" and the altitude at position „ALTITUDE", the actual time is is displayed in UTC-format at position 00/00/00, the date at position „00:00:00" and the GPS signal strength is shown graphically in the left upper corner of the display. For start-up and correct function of GPS data a coverage of at least 5 satellites is necessary[1]. Further parameters of the sensor you may find in the detaild picture of the GPS sensor.

1: In case of simultaneous connection of MSpeed and GPS the graphic symbol of the satellite number does not correspond with the real number of satellites.

Displaying Priorities

The following diagram shows displaying priorities of particular parameters if several sensors are connected simultaneously:
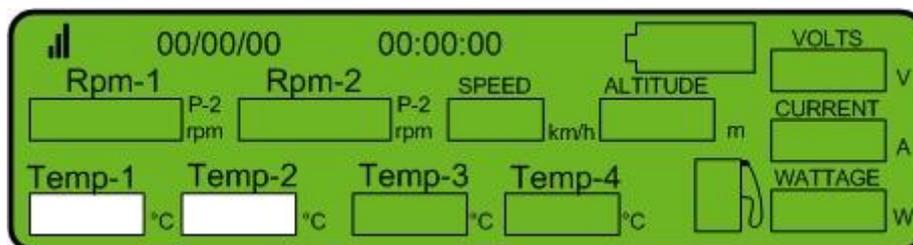

Modifications in the new Version of the FW-Converter

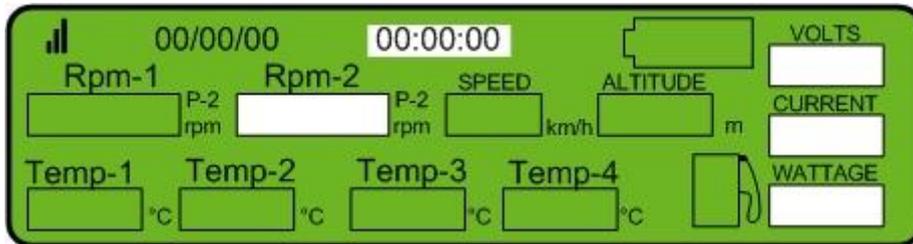*for FW-versions of the Aurora from 1.07 to 1.09, for FW-versions of the converter 0.04

Rx Signal Strength
- Depiction of the signal strengths is shown at positions „Temp-1" = Ant1 and „Temp-2" = Ant2 in a range from 0 to 9

MUI 30, 50, 75, 150, 200

- The voltage is situated at position „VOLTS", the current at position „CURRENT" and the actual power at position „WATTAGE". The time is shown at position „00:00:00" and capacity in mAh at position „Rpm-2". In order to display the current correctly the Aurora transmitter with current sensors MUI 30 and MUI 50 must be switched to type C50 and with all remaining sensors to type C200.

Displaying Priorities

The following diagram shows displaying priorities of particular parameters if several sensors are connected simultaneously: