







AE Product Change Notice 2019.11

Test Signal

From Version G-2.2.1 a square wave signal is generated as a test signal. The adjustable frequency is between 100 and 300 kHz and the amplitude between 40 and 120 V. A maximum of 24 periods can be selected. An automatic repeat can be set under T_replay.

Only channels that are in the ready state are displayed. Clicking a channel button changes the background colour. The colours have the following meaning:

-  Green: Channel enabled
-  Yellow: Channel in setting modus
-  Red: Channel disabled
-  Gray: Button not relevant at the moment

 All changed values are accepted when the start button is clicked.

If test signal generation is enabled for multiple channels, sensors transmit sequentially with an interval of 2.5 seconds and with the largest T_replay value.

The figure shows the default settings and the corresponding waveform of the send signal. A current of 0.9 A briefly flows at the voltage edges into the sensor. The electrical energy for the test signal shown is 0.99 mWs. The energy increases with the amplitude and the number of periods.

Setup of Square Wave Test Signal

All_Channels12111221223132

101102111112121122124125

Frequency

200 kHz

V_peak

100 V

N_cycles

3

T_replay

disabled

DEFAULTSABORTSTART

Electrical energy of this test signal: 0.99 mWs

left: setting example
right: associated waveform

