User's guide

Speed measurement Adash 3600-SPEED

Application:

- Eight channel speed measurement of the Adash 3600 on-line monitoring system

Characteristics:

- Connection up to 8 speed sensors
- User adjustable parameter Impulses per revolution
- User configuration of measured channels using the Adash 3600 Setup software
- Speed value can be displayed on the A3600 Main unit

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Description of Adash 3600-SPEED

The Adash 3600-SPEED module alows to connect up to ***8 speed sensors*** to the Adash 3600 system. Parameters for each measured channel can be changed using A3600 Setup software. Figure below shows Speed channel configuration window of A3600 Setup software.

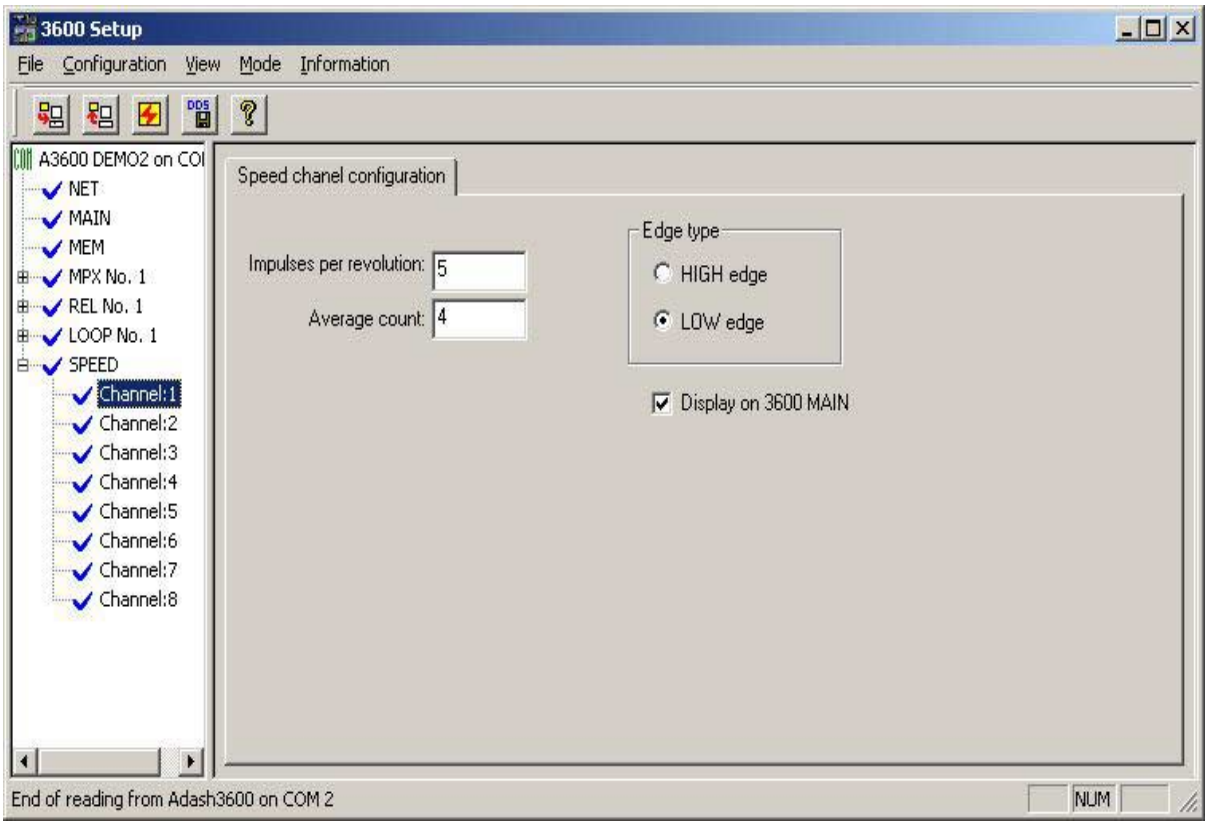

Fig. A3600 Setup SW, Speed channel configuration window, channel 1

Reading configuration from / Writing configuration to A3600 system – click on the appropriate toolbar icon or go to Configuration menu.

Parameters :

Impulses per revolution - 1 to 9999 (default 1)
Average count – 1 to 16 (default 4) ... number of measured values for averaging
Edge Type – positive / negative sensor signal
Display on 3600 MAIN – measured value will be displayed on the A3600 main module.

Make sure that correct parameter *Impulses per revolution* is set, otherwise wrong speed value will be measured !!!

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Speed data storage

For data storage set number of a channel (1 to 8) you want to measure in the Speed in. edit box. See figure below.

If no MPX module is connected in the A3600 system, chose MAIN module vibration channel configuration and set the channel number in the Speed in. edit box.

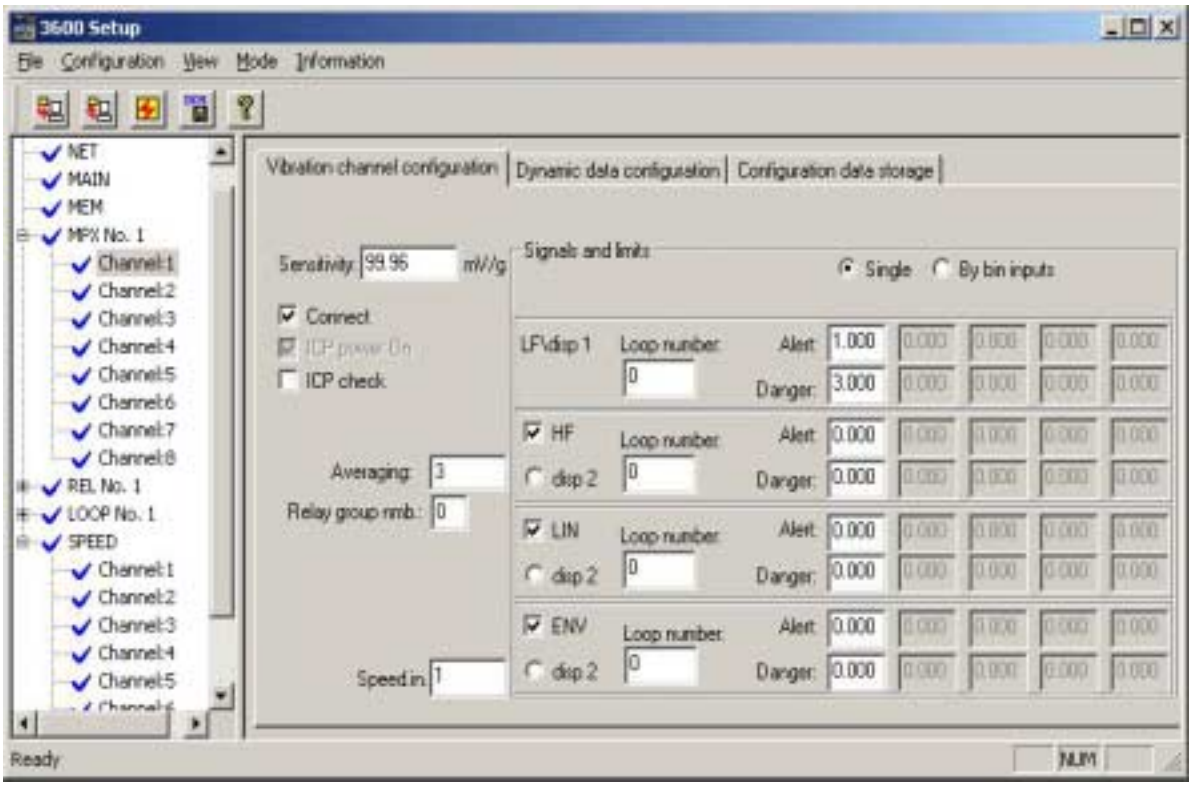

Fig. A3600 Setup SW, speed dat from channel 1will be stored on CF card (Speed in. = 1)

If the value in Speed in. edit box is not in range 1 to 8, no speed data will be stored on Compact Flash card !!!

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Terminal connection

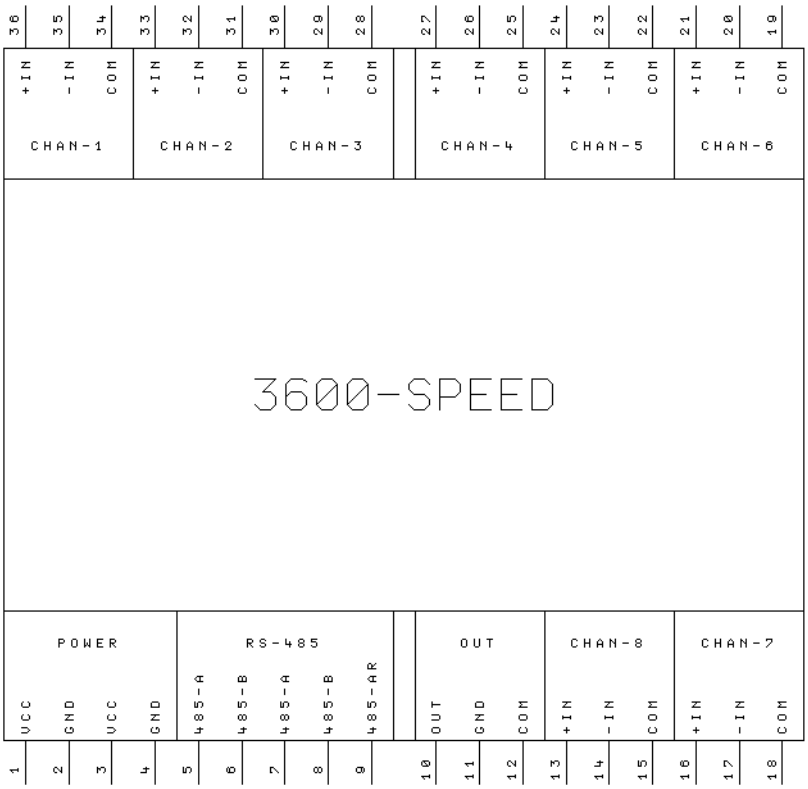

Fig. Terminal connection

Description of module terminal connectors

POWER supply voltage (terminal connectors with the same name are interconnected inside):
VCC +5 V / max. 200 mA,
GND 0 V.

RS-485 communication connection for the Adash 3600 system (terminal connectors with the same name are interconnected inside):
485-A signal A of RS-485,
485-B signal B of RS-485,
485-AR RS485 termination (120 Ohm), for the termination connect to terminal connector 485-B.

CHAN OUT output:
+ OUT positive output signal
- OUT negative otput signal
COM aux

CHAN1 to 8 inputs of signals from speed sensors 1 to 8:
+ IN positive signal
- IN negative signal
COM aux

For more information see A3600 system manual.

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NOTICE.

Each module of Adash 3600 system has individual unique internal address on RS-485 - see User's guide Vibration Monitoring System Adash 3600 (3600main-com-pwr_man_en.pdf - List of Module Numbers on Interface RS-485 chapter). Each supplied system is pre-configured by producer.

- If you work with several systems, do not change individual modules between systems without check of each address (via Adash 3600 Setup software).
- Regarding repairs and upgrades contact your supplier for correct order information. Then you will receive each module configured correctly.

If you do not respect this rules, then communication conflicts appears and the system will not work.

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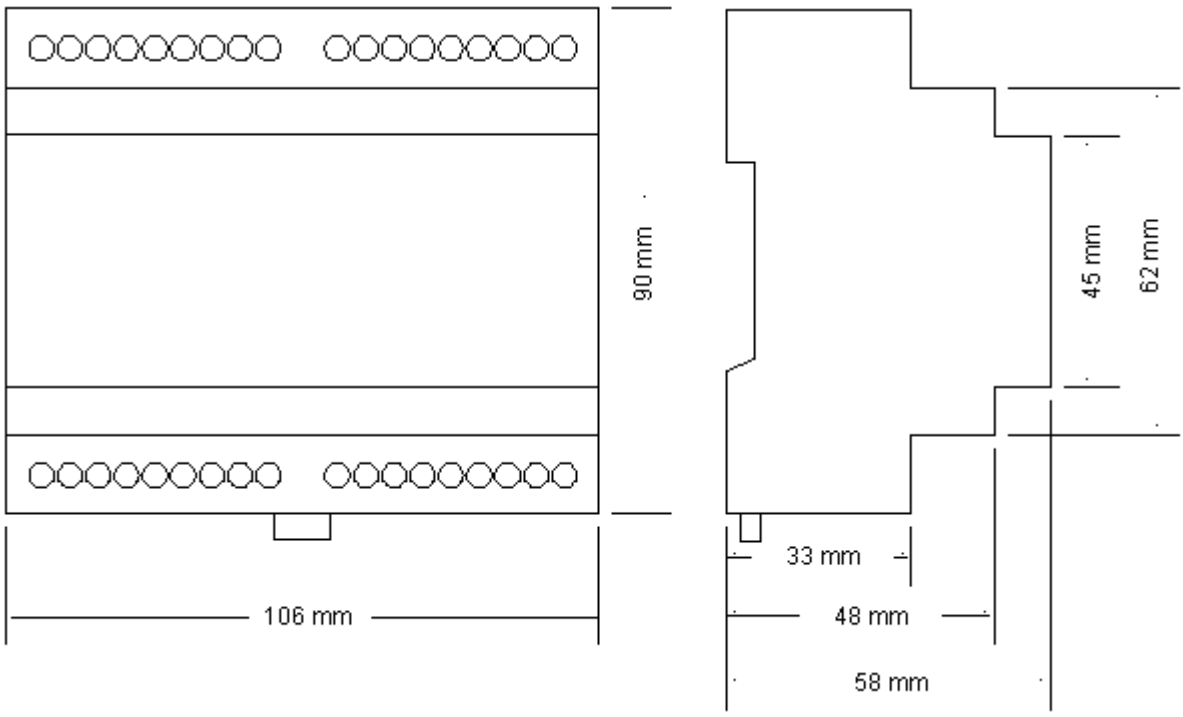
Technical Specification of Adash 3600-SPEED

Inputs:	8x speed sensors (multiplexed)
Interface:	RS-485 for the communication between the Adash 3600 set modules
Control:	by the main unit of Adash 3600-MAIN
Unit setting:	using the 3600 Setup program and communication unit Adash 3600-COM or Adash 3600-NET
Protection:	IP20
Temperature range:	-10 °C to +50 °C
Supply:	+5 V / 200 mA
Input insulation voltage:	1000V rms
Input signal ($V_{+IN} – V_{-IN}$) :	+ 5 to +30V / 5mA (TTL compatibile)
Min. meas. frequency:	<1 Hz
Max. meas. frequency:	>100 kHz
Min. pulse width:	5 us

Dimensions:	- 106 x 90 x 58 mm
Weight:	- 210 g
Installation:	- DIN rail

Adash 3600-Speed, case dimensions



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