



User's guide



Adash 3900-II DEMO SYSTEM

On-line vibration monitoring system



Introduction

The Adash 3900-II Demo is designed for simple promotion of A3900 features. It content wide range power supply, which enables to work with voltage from 100V to 230V.

Also the relay is installed, which switch on or of the output power in relation to vibration level. When vibration level exceeds the vibration limit (set by user), the power output is switched off. When the vibration level decreases under limit, then the power output is switched on.

The simple machine (e.g. grinder) is often used for demonstration purposes. The exceeding of limit switches off the machine. It is important, that the machine has to have the special circuit breaker cold Magnetic Safety Switch. These switches automatically shut down when the power unexpectedly goes off. When the electricity comes back on, the equipment will not start up until you press the start button.

When the powering is interrupted (vibration higher then limit), then this breaker has to switch off itself and must be switched on manually. If the breaker has not this feature, then the A3900 continuously switch off and switch on the machine. That is why the vibration level decreases under limit, when the machine is switched off.

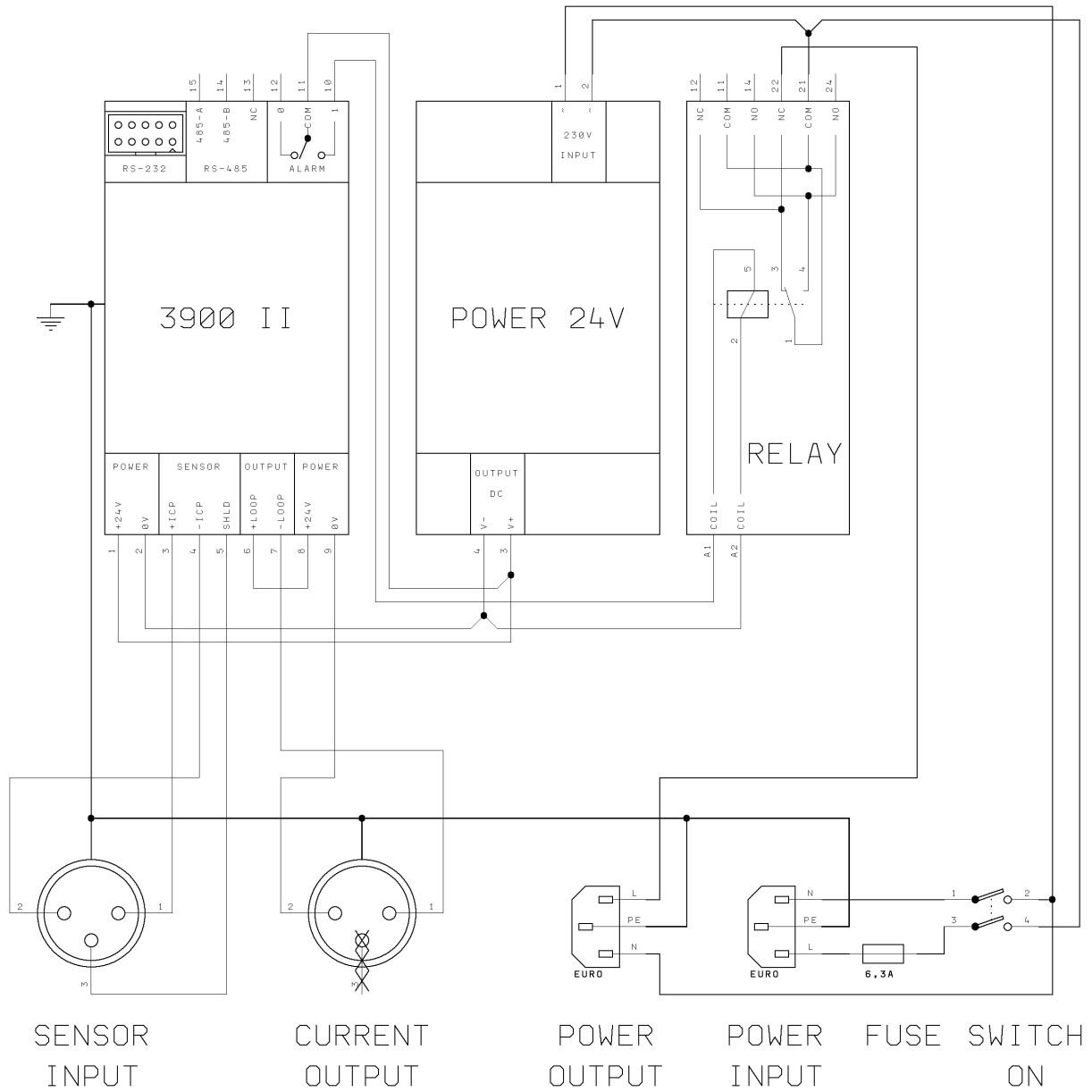
Current loop 4-20mA output is powered from internal 24V power. It means, you can use standard simple voltmeter for display of current value.

Technical specification

INPUT POWER	100-230V AC, max 30W
OUTPUT POWER	100-230V AC, max 6A current
FUSE PROTECTION	standard tube fuse 6,3A for protection of input and output together
OUTPUT RELAY	max10A double throw contact, NC contact used.
SIGNAL INPUT	standard ICP power input for accelerometer, shielded
CURRENT LOOP	powered, 24V, active current range 4,00 – 20,0 mA

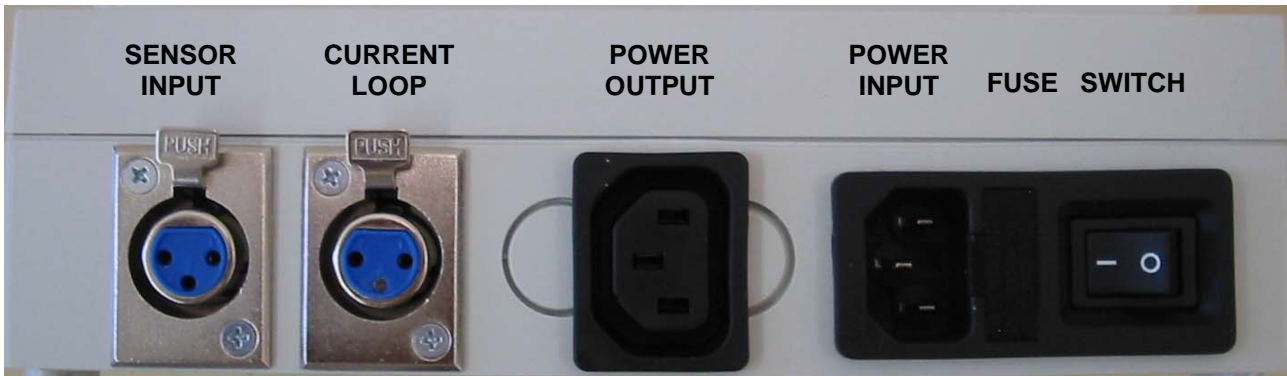
For more information see User's guide of Adash 3900-II module.

Scheme



Description

Input/Output Connectors



SENSOR INPUT	Input for ICP powered accelerometer
CURRENT LOOP	Current loop 4-20mA output (powered from internal 24V power)
POWER OUTPUT	230V / max 6A switched output. Voltage is switched off, when vibration exceed alarm level. Voltage is switched on when vibration is below alarm limit. System do not hold off state !!!.
POWER INPUT	100-230V AC input for power of system.
FUSE	Standard tube fuse 6,3A
SWITCH	Power on/off switch

Accessories

The ICP powered accelerometer.
 The accelerometer cable (2,5m length) with the connectors on both sides (XLR + MIL-C).
 Two pin XLR connector with 100R resistor to close of the current loop.



Vibration sensor with cable



Current loop connector