



# Machine Watch

NEPEAN Power's Machine Watch (X0270) is a complete motor control safety system in one package. The new improved Machine Watch has increased reliability and flexibility.



## Overview

Machine Watch is suitable for use with Coal Mine Auxiliary Fans as well as various other motor applications that require constant monitoring of vital functions.

Machine Watch is capable of monitoring motor vibration, temperature, airflow, gas content, voltage and current or simply plug and play with any other 4-20mA sensor.

Machine Watch will safely shutdown a motor due to unsafe conditions such as overload, undercurrent, phase rotation or phase loss.

The previous 100 trip events are stored in the history log and retained when power is removed. The internal record also keeps track of start/stop times and service run time.

Live data and history log information are available through Modbus TCP or Ethernet IP connections (when either module is fitted).

The X0287 PSU is an improved design 24V power supply that allows Machine Watch to engage an anti-windmill contactor for up to 12 seconds after power is removed. The PSU also provides a secondary output to power the 4-20mA sensors.

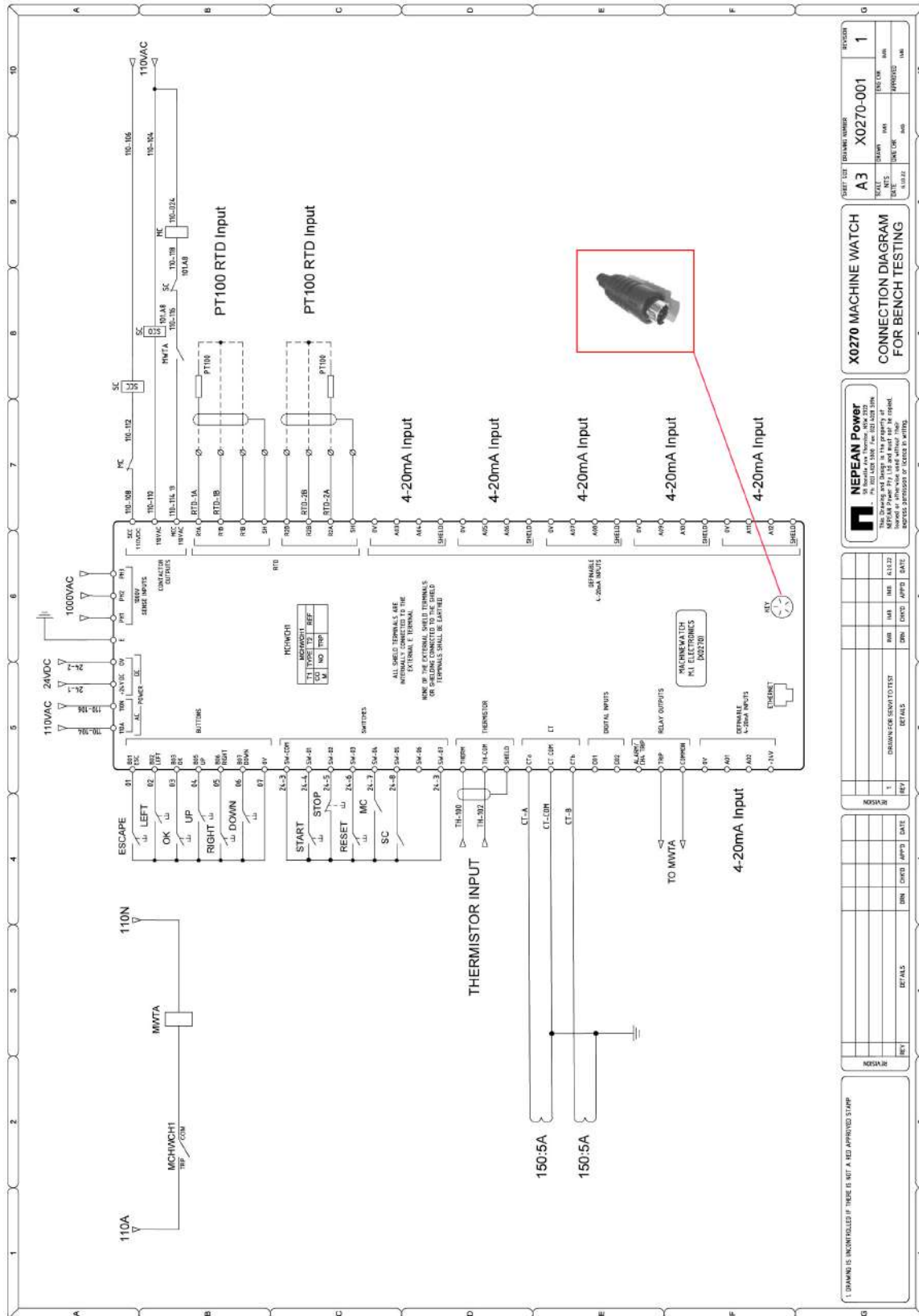
## Inputs & Outs

- 9 sensor inputs
- 13 digital inputs
- 4 control relay outputs

## Ordering Information

Part Number	Description
X0270	Machine Watch Protection Relay
X0270E	Machine Watch Relay w/ ETH/IP
X0270M	Machine Watch Relay w/ Modbus
X0287	Machine Watch/Fanwatch PSU Dual Output (24V & 32/22V) with AC Loss Detection
X0316	Machine Watch Power Supply
X0324	Personality Key to suit Machine Watch
X0342	Machine Watch Plug Set - 7 Plugs

# Sample Diagram



**X0270 MACHINE WATCH CONNECTION DIAGRAM FOR BENCH TESTING**

1. DRAWING IS CONTROLLED IF THERE IS REF. A RED APPROVED STAMP

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