

AUTOLOG 3000

CD3733 Multi-channel digital I/O card.



Features of CD3733

16 inputs:

- Opto-isolated
- Input current 4 mA
- Input voltage max 36 VDC
- Switching threshold > 6V

12 outputs:

- Solid state relays
- Output current max 0.5 A
- Output voltage max 48 VDC
- Resistance with active output is 25 ohm
- NO setting

2 Contact outputs:

- NO/NC using a relay
- Output current max 1A
- Output voltage max 48 VDC

PEEKEL Instruments B.V. at Rotterdam, Netherlands is one of the oldest manufacturers of strain gauge measuring instrumentation. PEEKEL equipment is in daily use in all major laboratories and research centers for testing aircraft, railway rolling stock, motor vehicles, cranes, bridges, machinery, engines, ships, satellites, etc.



Introduction

Very often different types of sensors and measuring principles have to be applied not only for different test jobs, but also within one particular application. With this in mind, AUTOLOG 3000 is designed to be a universal input device with the highest versatility. Strain gauges, thermocouples (of all types), resistance thermometers (Pt 100), LVDT, potentiometric transducers, and now with the CD3733 card also digital in- and outputs can easily be connected.

Every now and then one runs into an application in which one wants to measure analog signals but also wants to control the application using digital signals. Monitor not only the temperature within an engine but also check all incoming digital signals. Switch the engine off in case of a temperature overload. Communicate with the overall control system of your application using digital I/O.



*Application to test the heat-resistance of clothing:
Thermo-man : Fast thermocouples places on the outside of the special dummy. Digital I/O to check and control the state of the valves of the burners.*



Other AUTOLOG3000 cards:

CA3460 6 channel measuring card:

- 6 separate measuring-amplifiers
- 6 A/D converters each 1 kHz @ 24 bits, resolution of 0,1 $\mu\text{V/V}$
- Full-bridge strain gauges, thermocouples (of all types), resistance thermometers (Pt100), potentiometric transducers, a variety of DC input ranges and LVDT

CM3410 multiplexer card :

- 1 common measuring amplifier
- 1 analog-to-digital converter (24 bits @1 kHz)
- 1 multiplexer with 72 input lines, for different type of sensors

Note : Card is under development. All information in this document can be changed without prior notice



**PEEKEL
INSTRUMENTS**

PEEKEL INSTRUMENTS B.V., Industrieweg 161, NL-3044 AS
Rotterdam, Tel.: (+31) (0) 10 415 27 22, FAX: (+31) (0) 10 437 68 26
PEEKEL INSTRUMENTS GMBH, Bergmannstr. 43, D-44809 Bochum
Tel.: (+49) (0) 234 904 - 1603 / 1604, FAX: (+49) (0) 234 904 - 1605
PEEKEL INSTRUMENTS B.V.B.A., Industrielaan 4, B-9320
Erembodegem, Tel.: (+32) (0) 538 535 08, FAX: (+32) (0) 538 394 54