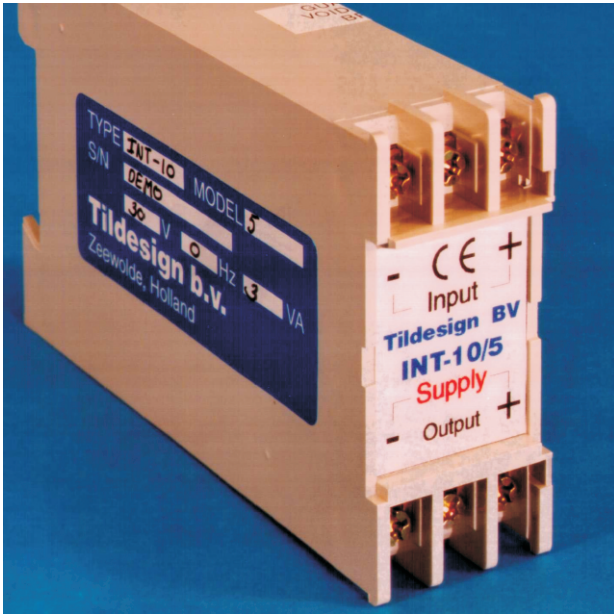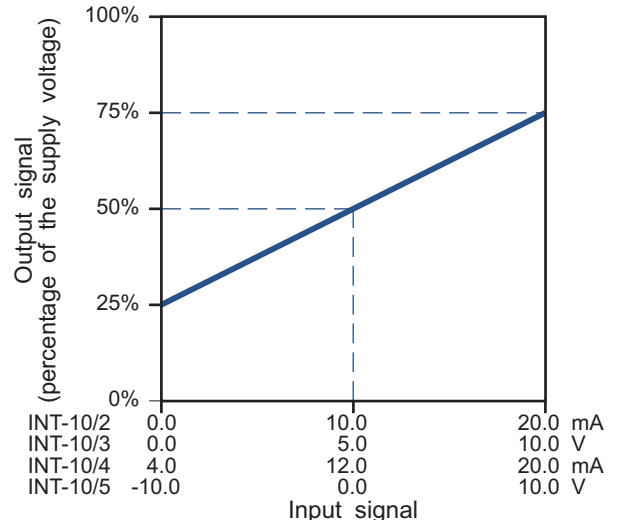# Danfoss valve control

The INT-10 offers you the possibility to control a Danfoss hydraulic proportional valve through a 0..10 Volt, 0..20 mA, 4..20 mA or a -10..10 Volt signal.
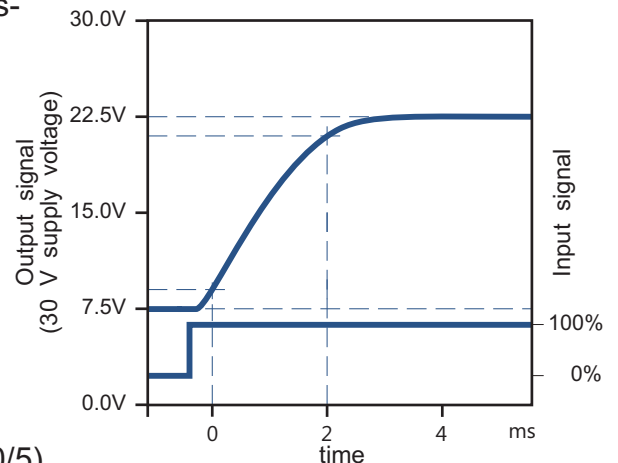
The control signal, can be produced by a PLC, an industrial control computer or a sensor.

The INT-10 converts this control signal to a corresponding potentiometer range, so that the Danfoss proportional valve will be controlled correctly.

In the first characteristic, the output signal is plotted as a function of the input signal.

The second characteristic, reflects the response time, measured between 10% and 90% of the maximum values.



| | | | |
|---|---|---|---|
| INT-10/2 | 0.0 | 10.0 | 20.0 mA |
| INT-10/3 | 0.0 | 5.0 | 10.0 V |
| INT-10/4 | 4.0 | 12.0 | 20.0 mA |
| INT-10/5 | -10.0 | 0.0 | 10.0 V |

*Transfer characteristic*



*Response time*

## Specifications:

Input signals (galvanically isolated):

- -1 .. +1 Volt (INT-10/1)     - -10 .. +10 Volt (INT-10/5)
- 0 .. 20 mA (INT-10/2)     - 0,5 .. 4,5 Volt (INT-10/6)
- 0 .. 10 Volt (INT-10/3)     - 0 .. 8,5 Volt (INT-10/7)
- 4 .. 20 mA (INT-10/4)

Output signal:
- potentiometer output, min. 25% and max. 75% of supply voltage
- output limiting : min. > 13% and max. < 87% of supply voltaqe

| | |
|---|---|
| Response time | : 2 ms max. |
| Linearitity | : better than 1% deviation |
| Supply voltage | : 9..30 VDC (max 200 mA) |
| Mounting | : on DIN rail |
| Cable connections | : M3 screws |
| Dimensions | : l x w x h : 77 x 32.5 x 114 mm |

| order codes | input signal |
|---|---|
| INT-10/1 | -1 .. +1 V |
| INT-10/2 | 0 .. 20 mA |
| INT-10/3 | 0 .. 10 V |
| INT-10/4 | 4 .. 20 mA |
| INT-10/5 | -10 .. +10 V |
| INT-10/6 | 0,5 .. 4,5 V |
| INT-10/7 | 0 .. 8,5 V |