

Operating Instruction Supplement

4 – 20 mA Output Option For Gamma L / Sigma

A 4 – 20 mA output signal is available as an option for the Gamma L and Sigma control version metering pumps.

This option will be available through the pump identcode and come in conjunction with a relay output. (depending on identcode character)

C = 4 – 20 mA output with fault relay drops out

D = 4 – 20 mA output with fault relay pulls in

E = 4 – 20 mA output with pacing relay

The mA output signal is not adjustable. It uses a combination of the pump stroke frequency and stroke length to generate a 4 – 20 mA output signal relative to 0 – 100 % pump capacity.

$$\text{mA output} = (16) * (\text{Freq} / \text{Freq Max}) * (\text{Stroke Length} / 100) + 4$$

The mA output signal is powered and can drive up to 300 Ohms maximum load.

The mA output signal is isolated.

This option will come with a 4 conductor cable, connections will be

4 – 20 mA output signal.

mA output + = Yellow wire

mA output - = Green wire

Relay output, semiconductor switch max switching 24 V DC, 100 mA

White Normally Open

Brown Common

The mA output is only active in the Analog and Manual modes.

In “ Stop “ Mode due to fault or operator intervention or “Pause “ , the mA output signal will be at 4 mA.

When the mA output option is selected, the analog curve settings are not available.