



**NIEUWKOOP**

# LEAFLET



## TM-I

TENSIOMETER 4-20MA

30/60/90CM



TO MEASURE  TO KNOW



## General

The TM-I is a tensiometer with an electronic output for connection to a read-out, controller or computer. This output is very suitable for long distances between tensiometer and read-out, controller or PLC.

Using the TM-I tensiometer will give the grower a better view about the soil conditions. This makes it possible to tune irrigation schedules better to the requirements of the plants. This will result in saving water, nutrients, environment and makes higher productions possible. From this day on guesswork in scheduling irrigation belongs to the past.

We refer to our user manual for a correct and useful use of the electronic tensiometer TM-I.



## Technical specifications

Model	: TM-I = 30cm (art.no. GV5700), 60cm(art.no. GV5710) and 90cm (art.no. GV5720)
Brand	: Nieuwkoop - Aalsmeer - Holland
Range	: -600...0hPa
Max. pressure	: 2 times the range
Output	: 4-20mA (4mA=0hPa, 20mA= -600hPa)
Non linearity	: Typ. $\pm 0,25\%$ , max. 0,5% of the scale
Hysteresis	: Typ. $\pm 0,25\%$ , max. 0,5% of the scale
Power supply	: 9-30Vdc
Temp. sensitivity 0-point	: Typ. $\pm 0,02\%$ , max. $\pm 0,04\%/^{\circ}\text{C}$ of the scale 0...+85°C
Temp. sensitivity Span	: Max. $\pm 0,005\%/^{\circ}\text{C}$ of the scale 0...+85°C
Working temperature	: 1...85°C
Accuracy 0-point/Span	: 1%, better accuracy possible by means of individual calibration
Membrane	: Ceramic
Housing	: Stainless steel 1.4305/IP65
Connector	: DIN 43650A
Tensiotube lengths	: 30, 60 and 90 cm, other lengths on request
Tube $\varnothing$	: 20mm
Weight 30, 60 and 90cm	: resp. ca. 300, 360 and 420 gram.
Accessories	: Syringe 60cc and a user manual
Warranty	: 1 year

Tensiometers are also available as a portable units, ask your supplier or Nieuwkoop for more information.



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**Nieuwkoop BV**

Aalsmeerderweg 249 -S

1432 CM AALSMEER

0297 325836

[info@nieuwkoopbv.nl](mailto:info@nieuwkoopbv.nl)

[www.meten.nl](http://www.meten.nl)



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