

# **PROGRAM DESCRIPTION**

## **G4**

**Program: G4MI\_1.2.102.1**

This description is valid for:

**G4 Weighing Instrument** with application program **1.2.102.1**

See also the following descriptions

**G4 Weighing Instrument, Technical Manual PM/DT/HE** ([www.vishaypg.com/doc?35160](http://www.vishaypg.com/doc?35160))

**G4 Weighing Instrument, Operating instructions, Quick installation PM/DT/HE**  
([www.vishaypg.com/doc?35196](http://www.vishaypg.com/doc?35196))

If these descriptions in any case are contradictory, this description is valid.

## Function

This special program includes a Max/Min and Hold function. The functions works on gross and net mode.

## General

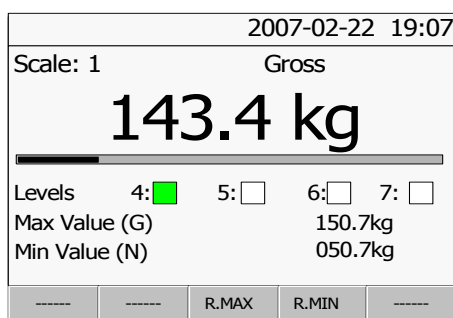
The Max and Min values can be shown on the information lines, sent to an analogue - output, or it can also be fetched by serial communication.

## Operation

The G4 will always display the HIGHEST (Max) and LOWEST (Min) value and keep it even if the actual gross or net weight is decreasing (Max) or increasing (Min).

If the measured Max value is increasing again and became higher then the displayed Max value, the new value is used as Max value.

If the measured Min value is decreasing again and became lower then the displayed Min value, then the new value is used as Min value.



### Max/Min Values on Information lines

With four new set-up parameters it is possible to configure the instrument to display Max/Min values on the information lines.

Max value for displayed scale is reset with 'R.MAX'. Min value for displayed scale is reset with 'R.MIN'.

## Parameters

### Menu 'General'

#### Info Line 1 Mode

Max Value Gross	<b>New choices:</b>
Max Value Net	<b>Max Value Gross:</b> <i>The max gross value of the shown scale is presented on the first info. line</i>
Min Value Gross	<b>Max Value Net:</b> <i>The max net value of the shown scale is presented on the first info. line</i>
Min Value Net	<b>Min Value Gross:</b> <i>The min gross value of the shown scale is presented on the first info. line</i>
	<b>Min Value Net:</b> <i>The min net value of the shown scale is presented on the first info. line</i>

#### Info Line 2 Mode

Max Value Gross	<b>New choices</b>
Max Value Net	Defines the mode of the second information line on the 1
Min Value Gross	scale screen on the graphical display.
Min Value Net	See parameter 'Info Line 1 Mode' for details

### Menu 'Scale 1'

#### 1:Measurement Unit

mm	<b>New choice</b>
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## Menus 'Inputs Slot 1' - 'Inputs Slot 6'

### Input 11 Use (- Input 18 Use)

Reset Max (G)	<b>New choices</b>
Reset Max (N)	<b>Reset Max (G):</b> Input used to reset max gross value to actual gross weight.
Reset Min (G)	<b>Reset Max (N):</b> Input used to reset max net value to actual net weight.
Reset Min (N)	<b>Reset Min (G):</b> Input used to reset min gross value to actual gross weight.
Reset All	<b>Reset Min (N):</b> Input used to reset min net value to actual net weight.
	<b>Reset All:</b> Input used to reset all Max/Min/Gross/Net values on all scales.

### Input 11 Scale (- Input 18 Scale)

1	<b>1:</b> Scale number 1 uses the input.
2	<b>2:</b> Scale number 2 uses the input.
3	
4	....
5	<b>8:</b> Scale number 8 uses the input.
6	Note: this parameter is only shown if parameter 'Input 11 source' is <b>New choices:</b> Reset Max (G), Reset Max (N),
7	Reset Min (G), Reset Min (N)
8	
<1>	

## Menu 'Analog Outputs'

### AOUT 1 - 4 Source

Max Value Gross	<b>New choices</b>
Max Value Net	<b>Max Value Gross:</b> <i>The output represents max gross value.</i>
Min Value Gross	<b>Max Value Net:</b> <i>The output represents max net value.</i>
Min Value Net	<b>Min Value Gross:</b> <i>The output represents min gross value.</i>
	<b>Min Value Net:</b> <i>The output represents min net value.</i>

## New Modbus registers

Data type: Integer	Data type: float (2 reg./value)	Explanation	R/W
43600 (3 reg)	45600	Scale 1: Max Gross weight	R
43603 (3 reg)	45602	Scale 1: Max Net weight	R
43606 (3 reg)	45604	Scale 1: Min Gross weight	R
43609 (3 reg)	45606	Scale 1: Min Net weight	R
43612 (3 reg)	45608	Scale 2: Max Gross weight	R
43615 (3 reg)	45610	Scale 2: Max Net weight	R
43618 (3 reg)	45612	Scale 2: Min Gross weight	R
43621 (3 reg)	45614	Scale 2: Min Net weight	R
43624 (3 reg)	45616	Scale 3: Max Gross weight	R
43627 (3 reg)	45618	Scale 3: Max Net weight	R
43630 (3 reg)	45620	Scale 3: Min Gross weight	R
43633 (3 reg)	45622	Scale 3: Min Net weight	R
43636 (3 reg)	45624	Scale 4: Max Gross weight	R
43639 (3 reg)	45626	Scale 4: Max Net weight	R
43642 (3 reg)	45628	Scale 4: Min Gross weight	R
43645 (3 reg)	45630	Scale 4: Min Net weight	R
43648 (3 reg)	45632	Scale 5: Max Gross weight	R
43651 (3 reg)	45634	Scale 5: Max Net weight	R
43654 (3 reg)	45636	Scale 5: Min Gross weight	R
43657 (3 reg)	45638	Scale 5: Min Net weight	R
43660 (3 reg)	45640	Scale 6: Max Gross weight	R
43663 (3 reg)	45642	Scale 6: Max Net weight	R
43666 (3 reg)	45644	Scale 6: Min Gross weight	R
43669 (3 reg)	45646	Scale 6: Min Net weight	R
43672 (3 reg)	45648	Scale 7: Max Gross weight	R

<b>Data type: Integer</b>	<b>Data type: float (2 reg./value)</b>	<b>Explanation</b>	<b>R/W</b>
43675 (3 reg)	45650	Scale 7: Max Net weight	R
43678 (3 reg)	45652	Scale 7: Min Gross weight	R
43681 (3 reg)	45654	Scale 7: Min Net weight	R
43684 (3 reg)	45656	Scale 8: Max Gross weight	R
43687 (3 reg)	45658	Scale 8: Max Net weight	R
43690 (3 reg)	45660	Scale 8: Min Gross weight	R
43693 (3 reg)	45662	Scale 8: Min Net weight	R

## Command register

### New Commands

<b>Cmd</b>	<b>Action activated in instrument</b>	<b>Description</b>
200	Scale 1: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
201	Scale 1: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
202	Scale 1: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
203	Scale 1: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
205	Scale 2: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
206	Scale 2: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
207	Scale 2: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
208	Scale 2: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
210	Scale 3: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
211	Scale 3: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
212	Scale 3: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
213	Scale 3: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
215	Scale 4: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
216	Scale 4: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
217	Scale 4: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
218	Scale 4: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
220	Scale 5: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>



<b>Cmd</b>	<b>Action activated in instrument</b>	<b>Description</b>
221	Scale 5: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
222	Scale 5: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
223	Scale 5: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
225	Scale 6: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
226	Scale 6: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
227	Scale 6: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
228	Scale 6: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
230	Scale 7: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
231	Scale 7: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
232	Scale 7: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
233	Scale 7: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
235	Scale 8: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
236	Scale 8: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
237	Scale 8: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
238	Scale 8: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
240	Reset All	<i>Used to reset all Max/Min/Gross/Net values on all scales.</i>

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## Vishay Nobel AB

Box 423, SE-691 27 Karlskoga, Sweden

Phone +46 586 63000 · Fax +46 586 63099

[pw.eur@vishaypg.com](mailto:pw.eur@vishaypg.com)

[www.weighingsolutions.com](http://www.weighingsolutions.com)