

PROGRAM DESCRIPTION

G4

Program: G4MI_1.8.126.0



Program for Max/Min function

This description is valid for:

G4 Weighing Instrument with application program **1.8.126.0**

See also the following descriptions

G4 Multi Channel Weighing Instrument Program version 1.8.0.0

Technical Manual PM/DT/HE (www.vishaypg.com/doc?35209)

G4 Multi Channel Weighing Instrument Program version 1.7.0.0

Operating instructions, Quick installation PM/DT/HE (www.vishaypg.com/doc?35178)

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

Special Program options:

To get the functionality described below the following program option has to be activated.

13: *Max/Min Function*: Option for Max/Min values

Function

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

General

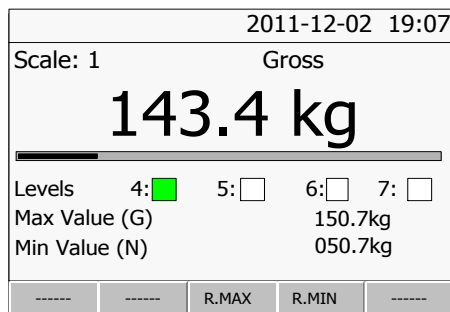
The Max and Min values can be shown on the information lines, sent to an analogue - output, printed, or it can also be fetched by serial communication.

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

Info Line 2 Mode

Max Value Gross	New choices
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 - Scale 8'

1:Measurement Unit

mm	New choice
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Menus 'Inputs Slot 1' - 'Inputs Slot 6'

Input 11 Use (- Input 18 Use)

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

Input 11 Scale (- Input 18 Scale)

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

Menu 'Analog Outputs'

AOUT 1 - 4 Source

Max Value Gross	New choices
Max Value Net	Max Value Gross: The output represents max gross value.
Min Value Gross	
Min Value Net	Max Value Net: The output represents max net value. Min Value Gross: The output represents min gross value. Min Value Net: The output represents min net value.

Menu 'Serial Com.'

COM1 - 2:Print Pos. 1 - 4

Max Value Gross	New choices
Max Value Net	Max Value Gross: The value of the max gross value is printed.
Min Value Gross	
Min Value Net	Max Value Net: The value of the max net value is printed. Min Value Gross: The value of the min gross value is printed Min Value Net: The value of the min net value is printed.

Print examples

Print Pos. 1 = Max Value Gross

Print Pos. 2 = Max Value Net

Print Pos. 3 = Min Value Gross

Print Pos. 4 = Min Value Net

Linefeeds = 2

1:+G 457.6 kg	1:+N 289.4 kg	(Scale 1)
1:-G 0.5 kg	1:-N -0.0 kg	
2:+G 457.9 kg	2:+N 345.6 kg	(Scale 2)
2:-G -0.2 kg	2:-N -0.2 kg	

New Modbus registers

Data type: Integer	Data type: float (2 reg./value)	Explanation	R/W
41700 (3 reg)	45600	Scale 1: Max Gross weight	R
41703 (3 reg)	45602	Scale 1: Max Net weight	R
41706 (3 reg)	45604	Scale 1: Min Gross weight	R
41709 (3 reg)	45606	Scale 1: Min Net weight	R
41712 (3 reg)	45608	Scale 2: Max Gross weight	R
41715 (3 reg)	45610	Scale 2: Max Net weight	R
41718 (3 reg)	45612	Scale 2: Min Gross weight	R
41721 (3 reg)	45614	Scale 2: Min Net weight	R
41724 (3 reg)	45616	Scale 3: Max Gross weight	R
41727 (3 reg)	45618	Scale 3: Max Net weight	R
41730 (3 reg)	45620	Scale 3: Min Gross weight	R
41733 (3 reg)	45622	Scale 3: Min Net weight	R
41736 (3 reg)	45624	Scale 4: Max Gross weight	R
41739 (3 reg)	45626	Scale 4: Max Net weight	R
41742 (3 reg)	45628	Scale 4: Min Gross weight	R
41745 (3 reg)	45630	Scale 4: Min Net weight	R
41748 (3 reg)	45632	Scale 5: Max Gross weight	R
41751 (3 reg)	45634	Scale 5: Max Net weight	R
41754 (3 reg)	45636	Scale 5: Min Gross weight	R
41757 (3 reg)	45638	Scale 5: Min Net weight	R
41760 (3 reg)	45640	Scale 6: Max Gross weight	R
41763 (3 reg)	45642	Scale 6: Max Net weight	R
41766 (3 reg)	45644	Scale 6: Min Gross weight	R
41769 (3 reg)	45646	Scale 6: Min Net weight	R

Data type: Integer	Data type: float (2 reg./value)	Explanation	R/W
41772 (3 reg)	45648	Scale 7: Max Gross weight	R
41775 (3 reg)	45650	Scale 7: Max Net weight	R
41778 (3 reg)	45652	Scale 7: Min Gross weight	R
41781 (3 reg)	45654	Scale 7: Min Net weight	R
41784 (3 reg)	45656	Scale 8: Max Gross weight	R
41787 (3 reg)	45658	Scale 8: Max Net weight	R
41790 (3 reg)	45660	Scale 8: Min Gross weight	R
41793 (3 reg)	45662	Scale 8: Min Net weight	R

Command register

New Commands

Cmd	Action activated in instrument	Description
217	Scale 1: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
218	Scale 1: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
219	Scale 1: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
220	Scale 1: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
221	Scale 2: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
222	Scale 2: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
223	Scale 2: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
224	Scale 2: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
225	Scale 3: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
226	Scale 3: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
227	Scale 3: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
228	Scale 3: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
229	Scale 4: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
230	Scale 4: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
231	Scale 4: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
232	Scale 4: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
233	Scale 5: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>

Cmd	Action activated in instrument	Description
234	Scale 5: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
235	Scale 5: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
236	Scale 5: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
237	Scale 6: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
238	Scale 6: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
239	Scale 6: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
240	Scale 6: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
241	Scale 7: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
242	Scale 7: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
243	Scale 7: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
244	Scale 7: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
245	Scale 8: Reset Max Gross Value	<i>Used to reset max gross value to actual gross weight</i>
246	Scale 8: Reset Max Net Value	<i>Used to reset max net value to actual net weight</i>
247	Scale 8: Reset Min Gross Value	<i>Used to reset min gross value to actual gross weight</i>
248	Scale 8: Reset Min Net Value	<i>Used to reset min net value to actual net weight</i>
249	Reset All	<i>Used to reset all Max/Min/Gross/Net values on all scales.</i>

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