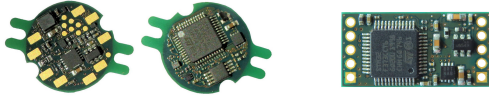


Features of the GSV-13i and GSV-13q



The GSV-13i and GSV-13q measuring amplifiers have automatic functions for zeroing the output signal (tare function) and for setting the scaling (scale function) of the output signal.

These functions are triggered via the digital inputs of the same name by a high level with 9V ... 28V compared to ground. The level must be applied for at least 2s, the zeroing or the scaling then take place on the falling edge.

To protect against incorrect operation or against accidental release, the Scale function is deactivated at the factory. In addition, the tare function is available earliest 30 seconds after switching on.

The Scale function is only temporarily available until the next switch-on process.

Through a programming process the following is possible:

- the tare function will be disabled permanently,
- the tare and the scale function are temporarily activated,
- the tare function will be permanently activated.
- Temporarily means here: until the next switch-on.

The programming process takes place by a time sequence of levels on tare and scale, in a time window between 10s after switching on and a maximum of 30s after switching on.

Please Note

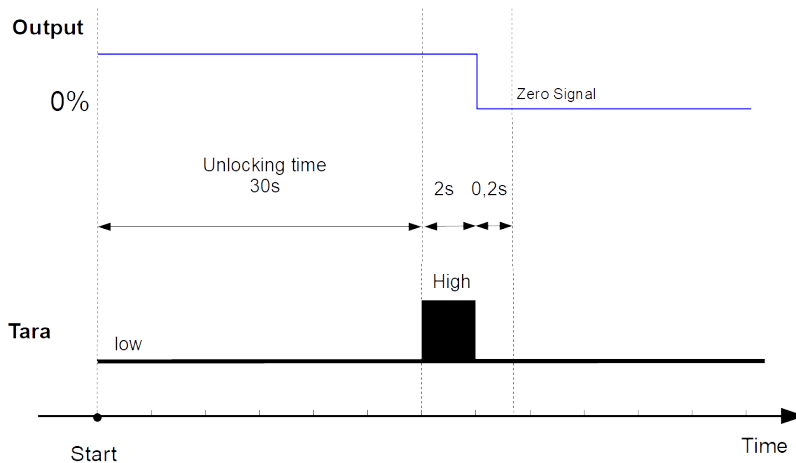
The tare function is available earliest 30 seconds after switching on.

The Scale function is always deactivated after switching on. 30S after activation, it is available.

Tare function

A high level on the tare input sets the analog output to zero (0% of the output signal, for example to 0V or 4mA or 12mA or 5V or 2.5V, depending on the model variant of the GSV-13)

The tare function is available earliest 30 seconds after switching on. Requirement: It has not been deactivated.

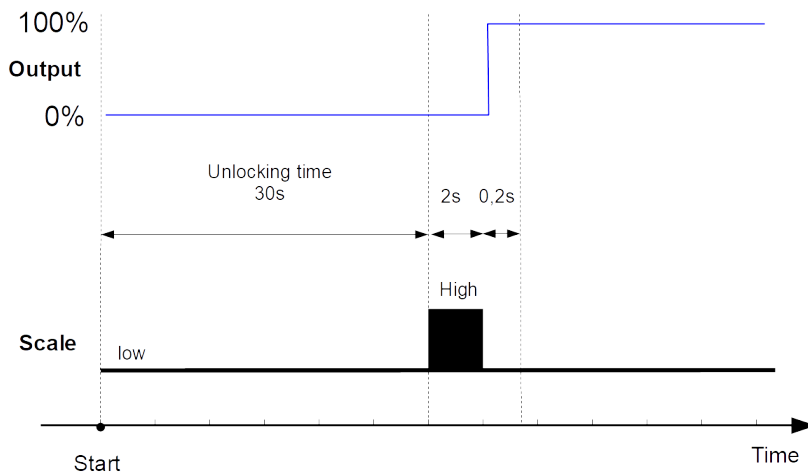


Tara function

Figure 1: Trigger the tare function: 2s high level; at least 30 seconds after switching on;

Scale function

A high level on the scale input sets the analog output to 100% of the output, e.g. on 10V or 20mA. The amplification of the measuring amplifier must be at least 0.05 mV / V.



Scale function

Figure 2: Triggering the Scale function: At the earliest 30 seconds after activation.

Unlock the functions

The Scale function is always deactivated after switching on. It must be unlocked. The same behavior can also be configured for the tare function (see Deactivate tare function).

In a time window between 10s and 30s after power up, the pattern shown must be generated at the Tara and Scale inputs.

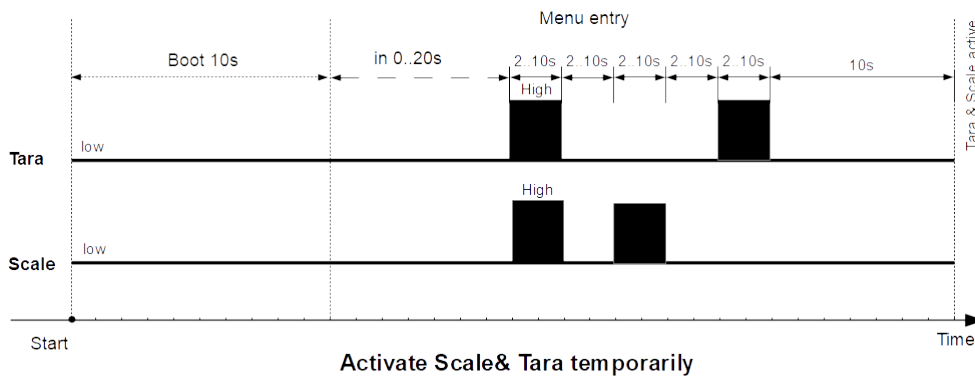


Figure 3: Unlock the functions

Deactivate the tare function

If necessary, the tare function can be deactivated. It can then be temporarily unlocked together with the Scale function (Figure 3: Unlock the functions)

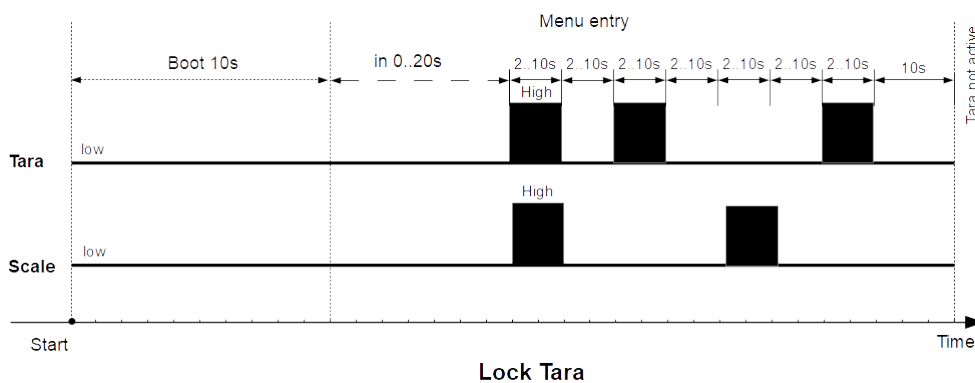


Figure 4: Deactivation of tara function



Activate the tare function

On delivery, the tare function is activated.

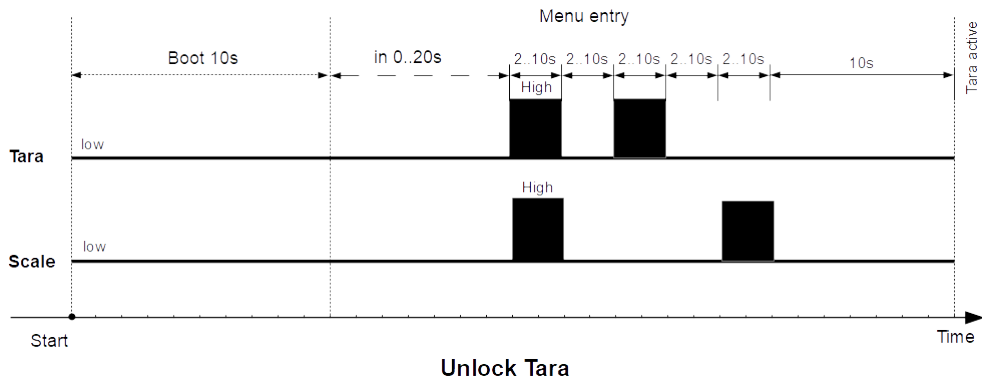


Figure 5: Activation of tara function

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