

# **PROGRAM DESCRIPTION**

## **TAD 3**

**Program: T142A241**

This description is valid for :

Weight indicator **TAD 3** with application program **T142A241**

See also following descriptions

**Weight indicator TAD 3, Technical manual** ([www.vishaypg.com/doc?35184](http://www.vishaypg.com/doc?35184))

**Weight indicator TAD 3, Operating instructions, quick installation manual**

If any of these descriptions are contradictory, this one is valid.

## Option codes

This program requires program option code for

06: Option 6

Options 1 'Batching' and option 2 'Flow rate' can be used together with this option 6.

## Function

Functions are added for the use of the weight indicator onboard a ship or other application where the gravitation force on connected loadcells vary depending on that the ship is rolling or moving upwards, downwards with a certain acceleration.

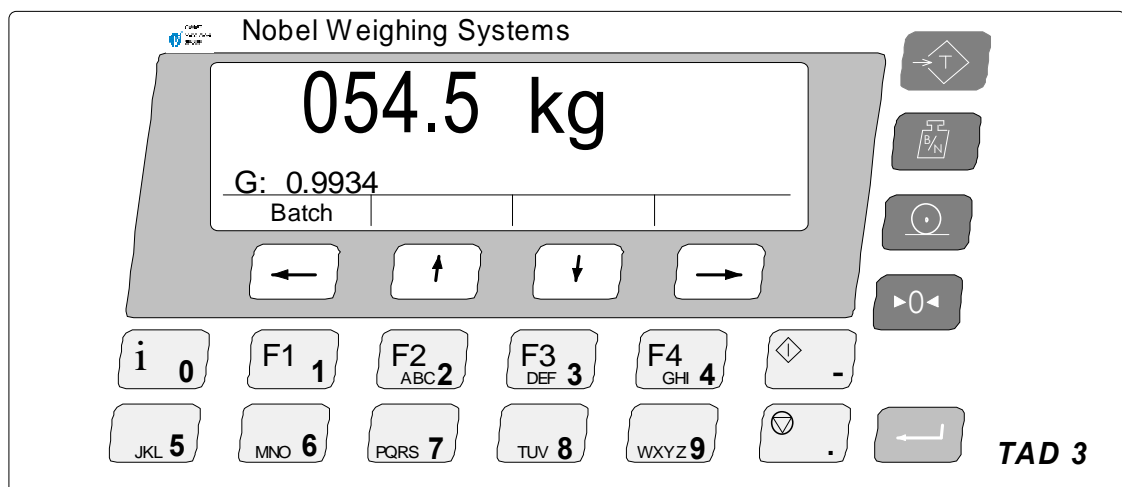
This is accomplished by using a reference loadcell with a reference weight and a reference instrument (TAD3, AST3, or WST3) that is calibrated to give a value of 10.000 when the reference loadcell is horisontell and not affected by gravitationell forces.

This application program communicates with the reference instrument and gets the reference value and uses this value to compensate the measured value for gravitationell forces.

The reference instrument must have address 2.

## Display

In normal weight display mode, the compensating factor (received reference value divided by 10) can be displayed on the information row of the display, when parameter 'Display info' is set to 'Special'.



## Changed functionality

### Weight display with g-compensation

When option 6 is activated (correct code is entered in menu 'Program options' and parameter 'Option 6') the calculated input signal from the loadcells (mV/V) is compensated with the calculated compensation factor in the following way

$$\text{New mV/V signal} = \text{input signal (mV/V)} / \text{compensation factor}$$

### Motion control

Motion control of the weight value is changed so that this control is done on the compensated weight value.

### Error codes

A new error code is implemented in the instrument.

Error code '225' is displayed if any of the following occurs

- The reference instrument cannot produce correct signal
- The communication with the reference instrument is faulty
- The compensation factor is below 0.5 or above 1.5 (the reference instrument displays a value below 5 or above 15)

### Changed Batching functionality

When an activity is configured with an acknowledge input set for 'continuous' check, the batching is **HALTED** if the input is deactivated during batching (no alarm given) and then batching is **RESTARTED** when the input is activated again.

Document no. 35079  
PT142A241E1R2  
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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)