PROGRAM DESCRIPTION

TAD 3

Program: T113A210
This description is valid for:
Weight indicator TAD 3 with application program T113A210

See also the following descriptions
Weight Indicator TAD 3, Operating instructions, Quick installation
Weight Indicator TAD 3, Technical Manual
If these descriptions in any case are contradictory, this description is valid.

**Option codes:**  This program requires program option codes for
   02: Flow rate
   06: Option 6

**General**
Two TAD3 instrument measures the flow out of two vessels. The two TAD3 are connected to each other and the ‘master’ TAD contains the special software that gets the flow value from the ‘slave’ TAD (standard software with option flow rate) and calculates and displays the relative flow value in percent with two decimals \((B / A+B) * 100\).

- **TAD3Slave** = A
- **TAD3Master** = B.

The ‘master’ TAD3 continuously reads the flow value from TAD with address no. 2.
New level x source special parameter implemented. This new parameter get the relative flow to work with levels 1 – 8 (absolute values) like standard software.
Possible to freeze the relative flow and levels with an input.
Indications

1.5 kg/h
Flow
W: 031.7 kg  R: 001.70%
F/W

TAD3 will display relative flow at the information line (small ‘standard’ weight bar removed in this software) if the set-up parameter ‘Display info’ in Edit set-up/General is set to ‘Off’.

001.70 %
W: 031.7 kg  F/W

TAD3 will display relative flow at the normal display position if function key ‘F3’ (toggle) is activated. This key will over ride the normal display.

Flow rate measurement
See chapter 8 in TAD 3 Technical Manual.

Changed set-up parameters
Following set-up parameters is changed (new default values or changed choice).
Menu "General"
Display info
< Off >  New default value.

New set-up parameter
Menu "Level supervision"
Level 1 - 8 source
< Not in use >

New Input
TAD 3 Input 1  Freeze relative flow and levels connected to relative flow.
NOTE. Freeze relative flow is NOT selectable works always on input 1 (not displayed and selectable in Menu ‘Inputs’)

Relative flow error indications
Will occur if following:
- One of the instruments is NOT in normal state and if weight errors is detected
- Communication error between master and slave.
- One of the Flow rate values = 0
- TADSlave flow rate + TADMaster flow rate = 0

<table>
<thead>
<tr>
<th>354.5 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>F: 0.0 kg/h</td>
</tr>
</tbody>
</table>

Display of indication line error

<table>
<thead>
<tr>
<th>------ %</th>
</tr>
</thead>
<tbody>
<tr>
<td>W: 031.7 kg</td>
</tr>
</tbody>
</table>

Display of normal display line error

Relative flow levels
Relative flow levels outputs are set passive when errors occur.
Electrical installation

**NOTE!** 'Pull down' resistors should be mounted. Max. cable length = 50 m.

Menu "Communication"
Settings:

**TAD3 Master ‘B’**

**COM2:Mode**

[7] **I/O bus**

< I/O bus >  The serial port NEAB I/O bus. (Master).

NOTE. Possible to add DIO 3 and ANA 3 units.

**TAD3 Slave ‘A’**

Instrument. Address = 2

**COM2 :Mode**

[2] **Modbus auto**

< I/O bus >  The instrument works as a slave.