



## User Manual Tankmatic



**TeeJet**  
Technologies

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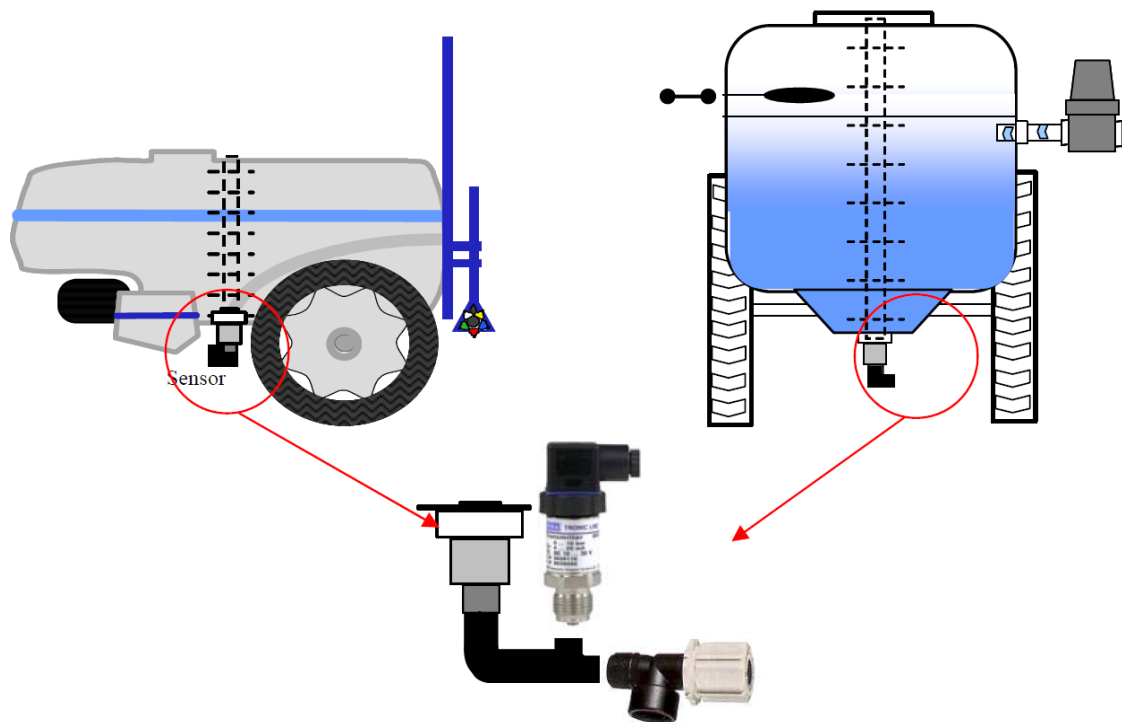
[www.teejet.com](http://www.teejet.com)

## 1. Characteristics

- Simple and accurate electronic gauge
- Measurement by highly sensitive pressure sensor
- Technology based on an experience of over 15 years
- Automatic calibration for all forms of tanks
- High accuracy: 100 calibration points and 1000 points of measurement
- Accurate measurement of tank contents regardless of the type of filler
- Auto fills with an optional fill valve
- Overfill Protection
- Read the contents of the tank per litre
- Density correction for liquid fertilizer

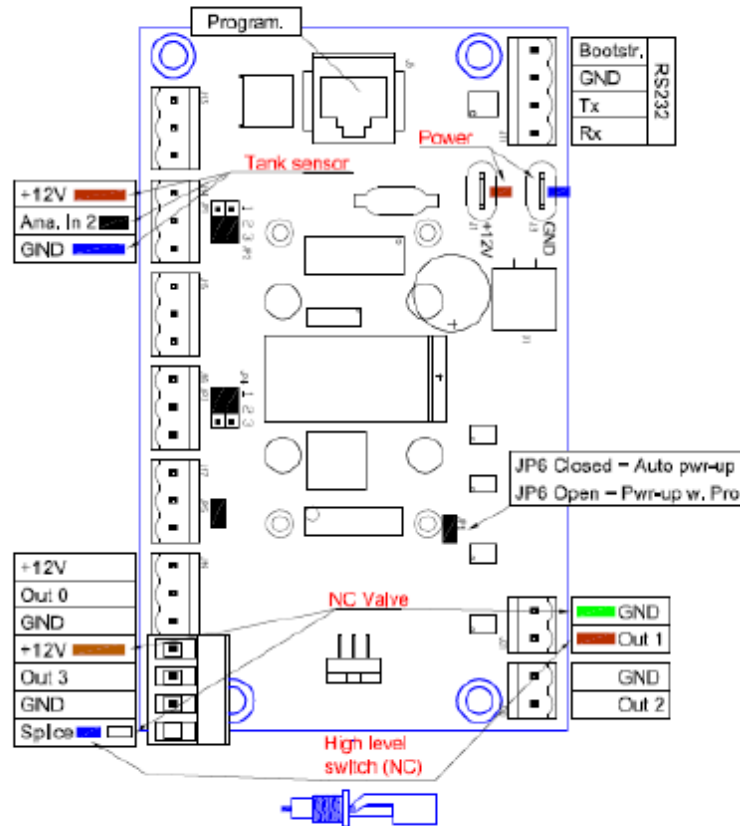
## 2. Installation

- The housing can be mounted in the cabin or outside on the machine
- The sensor must be mounted in the bottom of the tank at least 30 cm of suction point to avoid turbulence
- The sensor must be mounted vertically
- The diaphragm must be directed downwards
- A float switch (included in kit) can be installed for maximum security against overfill

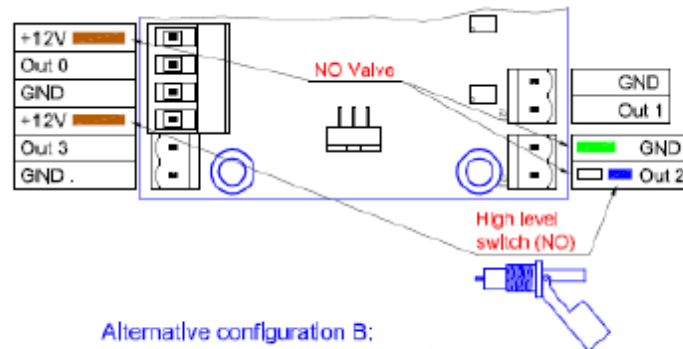


### 3. Connections

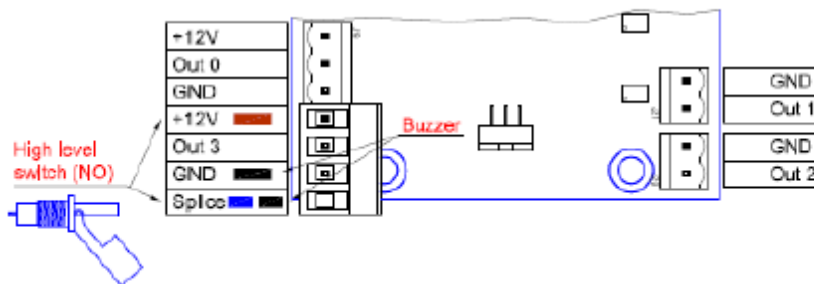
Standard configuration;  
High level switch (NC) + normally closed (NC) valve.



Alternative configuration A:  
Normally open (NO) valve.



Alternative configuration B:  
High level switch (NO) + external buzzer.



#### 4. General

Function	Key	Description
1. Power on	<b>Pro</b>	The unit will power on and show the first working screen <div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> <b>Tank</b>  <b>1525 It</b> </div>
2. Power off	↑ and ↓	The unit will power off

#### 5. Functionality

Function	Display	Comments	Possible actions
Main screen	<div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> <b>Tank</b>  <b>1525 It</b> </div>	Actual tank content	<b>Pro</b> to enter filling setup
Filling setup	<div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> <b>Density</b>  <b>130</b> </div>	Density of the product in the tank. For water, 1.00 must be used Press <b>CLR</b> to reset to water (1.00)	↑ ↓ to modify value <b>CLR</b> to step back to the main screen <b>Pro</b> to enter filling program if Autofilling is enabled. Otherwise <b>Pro</b> will return to main screen.
Filling setup	<div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> <b>Fill to</b>  <b>2000 It</b> </div>	Target tank content	↑ ↓ to modify value <b>CLR</b> to step back to the previous screen <b>Pro</b> to start filling
Filling	<div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> <b>Filling</b>  <b>1635 It</b> </div>	Busy with filling. Actual tank content is displayed	<b>CLR</b> to step back to the filling setup screen and stop filling <b>Pro</b> to stop filling
Filled	<div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> <b>Filled</b>  <b>2002 It</b> </div>	Tank filled up to the target. Actual tank content is displayed.  Buzzer and output are activated.	<b>CLR</b> to step back to the filling screen and restart filling <b>Pro</b> to stop alarm and go back to main screen

## 6. Program

Function	Display	Possible actions	Comments
Access / Exit		Push <b>Pro</b> for 3 seconds	All settings and calibration will be stored in non volatile memory only when exiting the program by pushing <b>Pro</b> for 3 seconds Do not power off the unit before doing this or all values will be lost.
Language selection	Language ENGLISH	↑ ↓ to modify value  <b>Pro</b> to validate and go to next screen	Select your language
Autofilling option	Aut of il l yes	↑ ↓ to select YES or NO  <b>Pro</b> to validate and go to next screen	If set to NO, the autofilling program will be disabled.
Empty Tank calibration	Ad empty 10 adc	↑ ↓ to modify value  <b>CLR</b> to calibrate automatically, the new measured value is displayed.  <b>Pro</b> to validate and go to next screen	This is the sensor value when tank is empty ( display 0 litre)
Minimum tank content	Mn vol 20 l t	↑ ↓ to modify value  <b>Pro</b> to validate and go to next screen	This is the minimum tank content that will be used for the tank shape calibration.
Minimum tank calibration	Ad mini 76 adc	↑ ↓ to modify value  <b>CLR</b> to calibrate automatically, the new measured value is displayed.  <b>Pro</b> to validate and go to next screen	This is the sensor value when tank is at minimum (see previous step)
Maximum tank content	Max vol 3200 l t	↑ ↓ to modify value  <b>Pro</b> to validate and go to next screen	This is the maximum tank content. Tank content display and filling will be limited to this value.

Maximum Tank Calibration	<div style="border: 1px solid black; padding: 5px; background-color: #e0ffe0; display: inline-block;">Ad maxi 976 adc</div>	<p>↑ ↓ to modify value</p> <p><b>CLR</b> to calibrate automatically, the new measured value is displayed.</p> <p><b>Pro</b> to validate and go to next screen</p>	<p>This is the sensor value when tank is full (see previous step)</p>
Tank shape calibration	<div style="border: 1px solid black; padding: 5px; background-color: #e0ffe0; display: inline-block;">Shape Calibr.</div> <div style="border: 1px solid black; padding: 5px; background-color: #e0ffe0; display: inline-block; margin-top: 5px;">Start spraying</div> <div style="border: 1px solid black; padding: 5px; background-color: #e0ffe0; display: inline-block; margin-top: 5px;">Calibr. 85%</div>	<p><b>CLR</b> to enter calibration <b>Pro</b> to go to next screen</p> <p>Press <b>Pro</b> to start the calibration or use the Master switch from your rate controller.</p> <p>Calibration is running (from 0 to 100%) When finished, the first display of this step will appear again.</p>	<p>Before starting the calibration, the sprayer must be adjusted for a flow of about 100 l/min</p> <p>Once the calibration has been started, do not change anything and let the calibration run until finished.</p>
Automatic filling anticipation	<div style="border: 1px solid black; padding: 5px; background-color: #e0ffe0; display: inline-block;">Fill off 20lt</div>	<p>↑ ↓ to modify value</p> <p><b>Pro</b> to validate and go back to first step</p>	<p>This value will be used to anticipate the filled alarm and output.</p> <p>To find the correct value, first set it to 0, start an automatic filling. Then enter here the extra volume filled.</p>