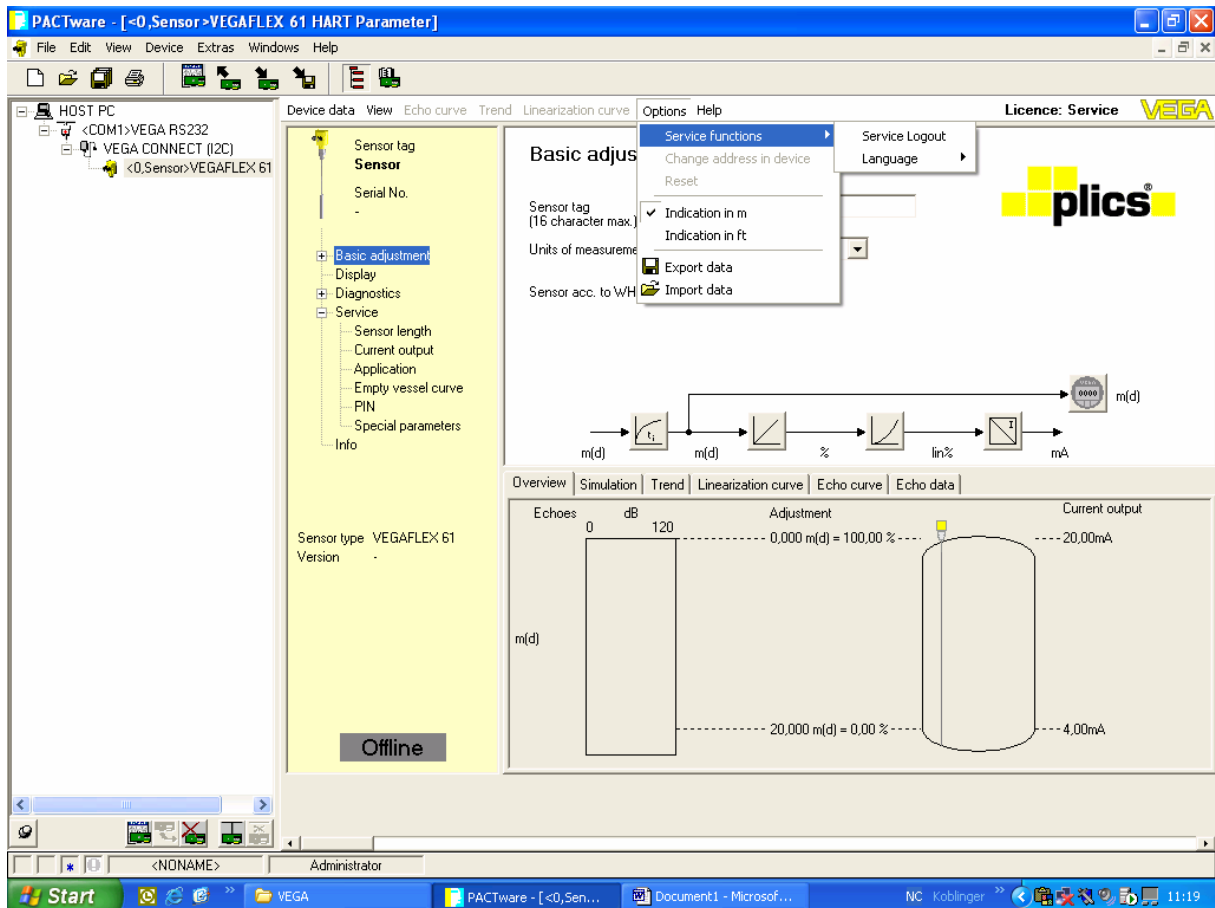


Dette er en kort beskrivelse på hvordan man gradvis kan gjøre en VEGAFLEX raskere.

For å få tilgang til alle parametere er det nødvendig å logge seg på som service spesialist. Dette gjøres under "options". Passordet er "VEGASERVICE".



Det vi ønsker å gjøre er å slå av en eller flere avrundingsfiltere som fuzzy logikken benytter. Dette vil gjøre måleren raskere men samtidig muligens også mer ustabil. Hva som er det riktige tall og inngrep bør derfor vurderes for den enkelte applikasjon.

Under Basic adjustment settes demping/integrasjonstid til 0

The screenshot displays the PACTware software interface for configuring a VEGA FLEX 61 sensor. The window title is "PACTware - [<0,Sensor>VEGAFLEX 61 HART Parameter]". The interface is divided into several sections:

- Left Panel (Tree View):** Shows the device hierarchy: HOST PC > <COM1>VEGA RS232 > VEGA CONNECT (I2C) > <0,Sensor>VEGAFLEX 61. The "Basic adjustment" section is selected and expanded, showing sub-items: Min-Max adjustment, Damping, and Linearization. Other sections include Display, Diagnostics, Service, and Info.
- Main Configuration Area:**
 - Basic adjustment:** Includes fields for "Sensor tag" (set to "Sensor"), "Units of measurement" (set to "m"), and a checkbox for "Sensor acc. to WHG".
 - Signal Flow Diagram:** Shows a process starting with "m(d)", passing through a filter (t_i), then a gain block, a percentage block (%), a linearization block (lin%), and finally a current output block (mA).
 - Graphs:** The "Adjustment" graph plots "Echoes" (0 dB to 120 dB) against "Current output" (4,00mA to 20,00mA). It shows a linear relationship: 0,000 m(d) = 100,00 % and 20,000 m(d) = 0,00 %.
- Bottom Panel:** Shows the Windows taskbar with the Start button, taskbar, and system tray. The system tray includes the Start button, taskbar, and system tray. The system tray shows the time as 11:23.

Special parameter (kun tilgang når pålogget som servicespesialist)

Pos. 21 Fast change of level settes til Yes
(fører til at målevindu deaktiveres slik at store nivåforandringer aksepteres)

The screenshot displays the PACTware software interface for configuring a VEGAFLEX 61 sensor. The window title is "PACTware - [<0,Sensor>VEGAFLEX 61 HART Parameter]". The interface is divided into several sections:

- Left Panel:** A tree view showing the device hierarchy: HOST PC > <COM1>VEGA RS232 > VEGA CONNECT (I2C) > <0,Sensor>VEGAFLEX 61. The "Special parameters" section is selected and expanded.
- Device data:** Shows sensor information: Sensor tag: Sensor, Serial No.: -.
- Parameters:** A list of 23 parameters with their values:

Parameter	Value
13. Detection threshold [dB]	10
14. First large echo will be displayed as distance	0 - No
15. Threshold for first large echo detection [dB]	15
16. Focus range for solids [cm]	200
17. Focus range for liquids [cm]	200
18. Time for opening of the focus range [s]	600
19. Filling speed [m/h]	2
20. Emptying speed [m/h]	2
21. Fast change of level (> 1 m/min)	1 - Yes
22. Fault signal on loss of echo	1 - Yes
23. Delay of fault signal on loss of echo [s]	60
- Bottom Panel:** A diagram showing the sensor's measurement range. The y-axis is labeled "Echoes" with values 0 and 120 dB. The x-axis is labeled "m(d)" with values 0.000 m(d) = 100.00 % and 20.000 m(d) = 0.00 %. The current output is shown as 20.00mA and 4.00mA.

The status bar at the bottom indicates the user is logged in as "Administrator" and the system time is 11:23.

Pos. 4 og 5 Averaging factor on increasing og decreasing....settes nærmere 0

The screenshot displays the PACTware interface for configuring a VEGAFLEX 61 sensor. The 'Special parameters' section is expanded, showing the following values:

Parameter	Value
2. Additional security at start of operating range	1 - Yes
3. Additional security at end of operating range [cm]	20
4. Averaging factor on increasing amplitude	2
5. Averaging factor on decreasing amplitude	2
6. Expansion begin of empty vessel profile [cm]	5
7. Expansion end of empty vessel profile [cm]	5
8. Offset reference line liquids [mV]	80
9. Offset reference line solids [mV]	15
10. Start offset reduction [cm]	100
11. Transition range for offset reduction [cm]	100
12. Offset reduction [%]	-50

The 'Echo curve' section shows a graph with 'Adjustment' and 'Current output' curves. The 'Adjustment' curve is a horizontal line at 0.000 m(d) = 100.00%. The 'Current output' curve is a horizontal line at 20.00mA. The graph also shows 'Echoes' at 0 dB and 120 dB, and 'm(d)' values at 0.000 m(d) = 0.00% and 20.000 m(d) = 0.00%.

Pos 25. Measurement value filter..... settes til week eller slås av

The screenshot shows the PACTware software interface for configuring a VEGAFLEX 61 HART sensor. The window title is "PACTware - [<0,Sensor>VEGAFLEX 61 HART Parameter]". The interface includes a menu bar (File, Edit, View, Device, Extras, Windows, Help), a toolbar, and a tree view on the left showing the device hierarchy: HOST PC > <COM1>VEGA RS232 > VEGA CONNECT (I2C) > <0,Sensor>VEGAFLEX 61. The main area is divided into several sections:

- Device data:** Shows sensor tag, serial number, and status (Offline).
- Service:** A tree view with "Special parameters" selected.
- Parameters:** A list of 25 parameters with their values and units. Parameter 25, "Measurement value filter with hysteresis", is currently set to "2 - standard". A dropdown menu is open, showing options: 0 - weak, 1 - Auto, 2 - standard (selected), 3 - OFF, and 4 - strong.
- Adjustment:** A diagram of a cylindrical vessel with a sensor probe. It shows the relationship between Echoes (dB), Adjustment (m(d)), and Current output (mA). The diagram indicates that 0 dB corresponds to 0.000 m(d) = 100.00 % and 20.00 mA, while 120 dB corresponds to 20.000 m(d) = 0.00 % and 4.00 mA.

The Windows taskbar at the bottom shows the Start button, system tray, and open applications including VEGA, PACTware, and Microsoft Word. The system clock shows 11:21.

Det samme gjelder for ultralyd og radar baserte enheter

Her kan man i tillegg gjøre følgende dersom man har gode refleksjoner fra mediet.

The screenshot shows the PACTware software interface for configuring a VEGASON 62 HART sensor. The window title is "PACTware - [<0,Sensor>VEGASON 62 HART Parameter]". The interface includes a menu bar (File, Edit, View, Device, Extras, Windows, Help), a toolbar, and a status bar at the bottom showing "dyno.PW" and "Administrator".

The main configuration area is divided into several sections:

- Left Panel:** A tree view showing the sensor configuration structure. The "Special parameters" section is selected. Below the tree, the sensor type is identified as "VEGASON 62" and the status is "Offline".
- Parameter List:** A list of 30 parameters with their current values and units. Parameters 29 and 30 are highlighted in blue.
- Parameter Values:** A table showing the values for parameters 21 through 30.
- Overview Tab:** A graphical representation of the sensor's measurement range and output. It shows a vertical scale for "Echoes" (0 to 150 dB) and "Adjustment" (0.400 m(d) to 8.000 m(d)). The "Current output" is shown as a horizontal line from 20.00mA to 4.00mA.

Parameter	Value
21. Sensitivity outside the focus range [dB]	6
22. Consider the fill rate ?	1 - No
23. Time for opening of the focus range [s]	600
24. Filling speed [m/h]	2
25. Emptying speed [m/h]	2
26. Fault signal on loss of echo	0 - No
27. Delay of fault signal on loss of echo [s]	120
28. Measured value offset [m]	0,000
29. Switchable filter for measured value with hysteresis	3 - OFF
30. Sensitivity of the receiver	1 - large signal strength

The Overview tab displays a diagram of the sensor's measurement range and output. The vertical axis represents "Echoes" (0 to 150 dB) and "Adjustment" (0.400 m(d) to 8.000 m(d)). The horizontal axis represents "Current output" (20.00mA to 4.00mA). The diagram shows a vertical line representing the sensor's measurement range, with a horizontal line indicating the current output. The current output is shown as a horizontal line from 20.00mA to 4.00mA.