



Magnetrol®



PACTware™ PC Software DTMs FOR PULSAR™ RADAR AND ECLIPSE® GUIDED WAVE RADAR TRANSMITTERS

- Convenient Level Monitoring
- View, Configure, Save and Transfer All Parameters
- View Echo Wave Form
- Capture False Target Rejection Profile
- Trend Data Including Level, Quality, Loop, and %Output
- View Diagnostic Conditions
- DTMs are compatible with any frame program that meets the FDT standard





Pulsar and Eclipse—the world’s easiest radar transmitters to configure—just got easier. Using HART® communications, every parameter can be modified remotely anywhere on a two-wire loop using the new PACTware PC software. Configuration and troubleshooting can now be done within the convenience and safety of a control room.

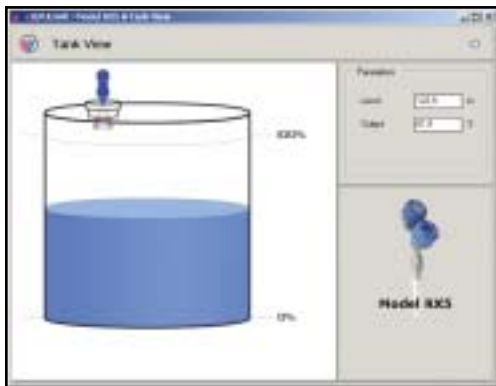
DESCRIPTION

PACTware PC software and the new Field Device Tool (FDT) standard take radar level measurement to a new level of setup efficiency and user-friendliness. The powerful Pulsar™ and Eclipse® radar transmitters with their linear program have always been easy to use. PACTware builds on that ease of use by adding a graphical software interface. Simply connect your PC through a serial interface to the HART loop and all functionality can be accessed quickly, conveniently, and safely.

PACTware offers a broad range of monitoring, configuration and troubleshooting capabilities:

- Level Monitoring
- Viewing and Configuration of all parameters
- Viewing Echo Wave Form
- Capturing False Target Rejection profile
- Trending data including Level, Signal Quality, Loop and %Output
- Viewing of Diagnostic conditions

LEVEL MONITORING



Level Monitoring Screen

Continuously viewing the level in a tank is the starting point for this new software. Position of liquid level can be viewed in a simple graphical format. Level and Output values are shown numerically as well. This screen can be left open to show the relative position of the liquid level.

VIEW AND CONFIGURE ALL PARAMETERS

Every parameter in the Pulsar and Eclipse radar transmitters can be monitored and modified remotely with a few clicks of the mouse. From units of measure to settings for dielectric, each parameter can be viewed or changed to suit application conditions.



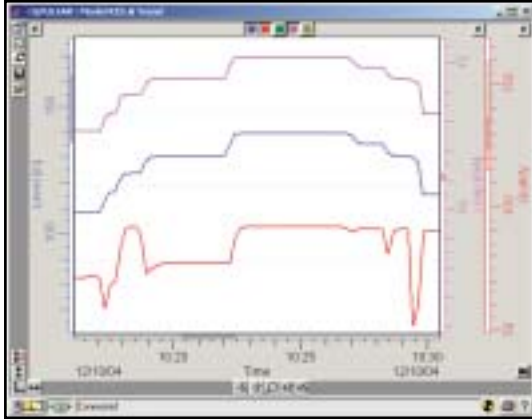
Parameters Screen

Parameters can be developed offline or saved from one transmitter and loaded to another. The menu tree shows the major DEVICE SETUP categories of CALIBRATION, BASIC SETUP, ADVANCED SETUP, DIAGNOSTICS and REVIEW. Once chosen, the corresponding information is presented on the right side of the screen.



TRENDING

The ability to trend data over a period of time allows insight into overall operation of a device. For example, trending the LEVEL, QUALITY (Pulsar only), and LOOP values is invaluable when attempting advanced configuration or troubleshooting. The PACTware PC software has the ability to track all parameters including DISTANCE (Pulsar only) and %OUTPUT.

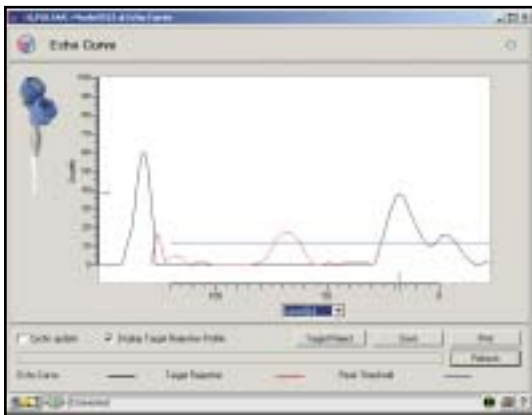


Process Trend Screen

The vertical and horizontal scales can be manipulated to show as much or as little data as necessary. The data can also be saved as a picture (*.bmp) or data (*.txt) file. The data file can be reopened from within the Trend window and manipulated as if live.

ECHO WAVE FORM*

An oscilloscope can be a handy tool when troubleshooting electronic equipment. Few companies own one and fewer people know how to use them. The ability to view an echo wave form is a classic example of “a picture is worth a thousand words.”



Echo Wave Form Screen

Now any operator can see into the vessel through the eyes of Pulsar.

The Echo Curve screen yields a wealth of useful information.

- Level is shown along the X-axis and signal quality along Y-axis.
- The black line shows the actual echo curve.
- The red line shows the false target profile.
- The blue line shows the minimum threshold.
- The blue hash marks show the location and signal quality of the target currently detected as liquid level.
- False Target Rejection can be accessed from this screen.

False target rejection is a common issue among all non-contact, transit-time (ultrasonic, radar) devices. For many years this was one of the most cumbersome aspects of radar setup. Pulsar is recognized as one of the easiest radar transmitters to configure including FTR. With the PACTware software, the inside of the tank can be seen as Pulsar sees it.

** Echo wave form capability for Eclipse in future release.*

CONNECTIONS

Simply connect the HART/RS232 or HART/USB serial interface from the PC to the two-wire loop.



