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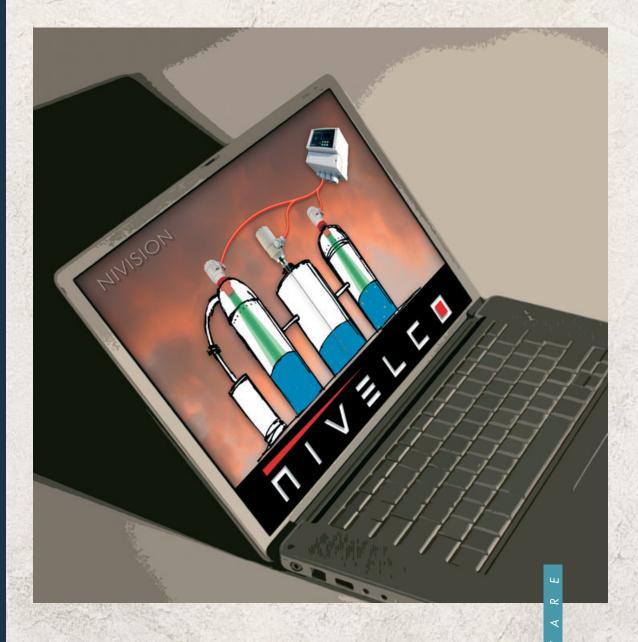




O U R

NIVISION

PROCESS VISUALIZATION SYSTEM



PROFESSION IS YOUR LEVEL

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GENERAL INFORMATION

NIVISION is a VISION X9 based process visualization software which uses the XSDL (Extensible Structure Declaration Language) programming and configuring language.

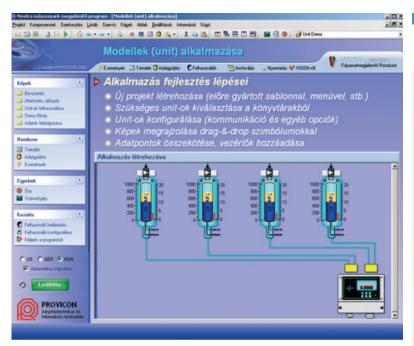
- Tank configuration
- Transmitter configuration
- Tankpark visualization
- Displaying of measured values
- Displaying of limit values
- Trend monitoring
- Data logging
- Database handling
- Archiving
- Other log functions (alarms)
- Remote connection (LAN or Internet)

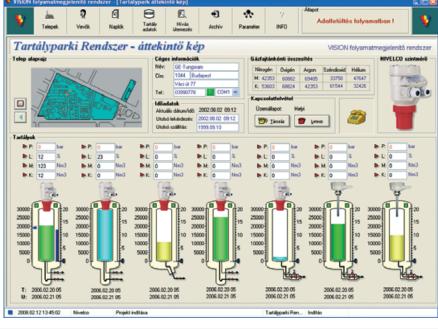
Nivision can visualize a process control system built with Nivelco instruments on a PC.

The instruments can either be intelligent trans-

mitters with analogue output or digital communication, or different switches based on different measuring principles. The tankpark layout with tanks, instrumentation and other process devices can easily be visualized. NIVISION offers a wide range of visualization elements of the measured and limit values, time based trends, databases and logs. Exporting and importing different database types is also a basic feature of the software. A clear and transparent overview of all processes involved in an application makes stock and material management a simple task with a well constructed NIVISION project. Another great feature of the software is that a NIVISION project can be visualized on a remote computer (with no NIVISION installed) through a local area network (LAN) or the Internet using an ordinary internet browser.

It is a perfect solution for small and medium sized process control systems where setting up a SCADA system is too expensive.





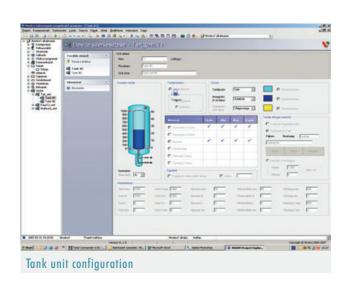
APPLICATION

The steps of customizing **NIVISION** to a specific application:

- The end-user draws the technological, operational and functional requirements of the application.
- Based on the customer's requirements the developer configures the visualization project in the NIVISION developer system graphically and makes the required programming. The developer system can only be accessed by the project developer.
- The finalized project can be executed by the end-user using the NIVISION runtime system.

The basic element of the software is the so called "UNIT" which contains the applied instrument (with graphical representation), the instrument's variables, event handling, communication and data display.

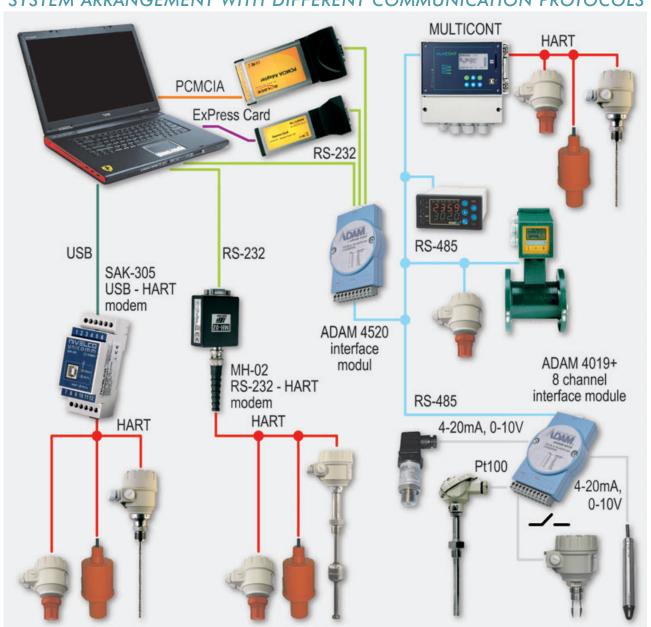
With the help of these units a complete process instrumentation system can be set up for visualization.





Device unit configuration (EasyTREK)

SYSTEM ARRANGEMENT WITH DIFFERENT COMMUNICATION PROTOCOLS



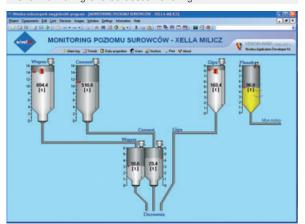


RUNTIME PROJECTS



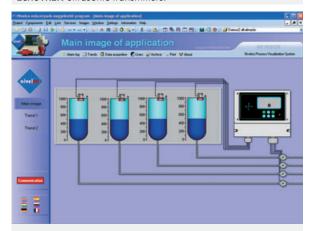
Level measurement in oil tanks:

With MicroTREK, MULTICONT instruments, data logging, trend monitoring and database handling.



Cement plant

Level measurement with MicroTREK microwave and EchoTREK ultrasonic transmitters.

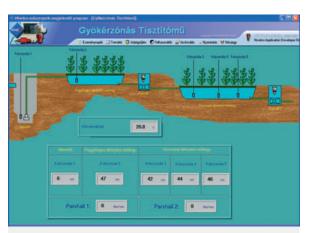


Level measurement of chemicals:

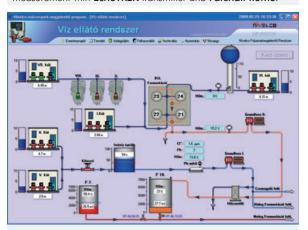
With EchoTREK ultrasonic level transmitters and MULTICONT process controller.

System requirements:

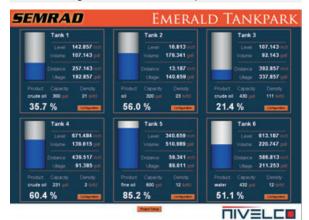
- PC or Notebook with RS232, USB or PCMCIA port
- Appropriate communication interface
- Microsoft Windows XP Professional



Water purifier system: Level measuring of water in reservoirs with NIVOPRESS bore-hole level transmitters, open channel flow measurement with EchoTREK transmitter and Parshall flume.



Water supply system: Level measurement of wells with NIVOPRESS bore-hole level transmitters and pressure transmitters, temperature measurement with THERMOCONT transmitters. Signal transmission is done by wireless transmission.



Tankpark visualization: Level measurement of oil and water tanks with MicroTREK level transmitters and MULTICONT controllers at different locations using Internet connection.

- Microsoft Office
- Winzip
- 5 Gb free harddisk space

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CONFIGURABLE UNITS

Multifunctional devices			
1000 20 800 15 600 400 20 200 400 5	Tank		
****	MULTICONT	(RS485)	
2020	UNICONT PM	(RS485, 4-20 mA)	
	UNICONT PD	(HART, 4-20 mA)	
Intelligent transmitters			
ņ	EchoTREK 2 and 4-wire	(HART, 4-20 mA, RS485)	
	EasyTREK 2 and 4-wire	(HART, 4-20 mA)	
	NIVOTRACK	(HART, 4-20 mA)	
	MicroTREK	(HART, 4-20 mA)	
	PILOTREK	(HART, 4-20 mA)	
- U	NIVOCAP	(HART, 4-20 mA)	
	NIVOPRESS N	(HART, 4-20 mA)	
CE	NIVOPRESS D	(HART, 4-20 mA)	
	ISOMAG	(RS485, 4-20 mA)	
	THERMOCONT	(HART, 4-20 mA)	

CONFIGURABLE UNITS

Analogue transmitters			
	NIVOPRESS N	(4-20 mA, 0-10 V)	
(CE	NIVOPRESS D	(4-20 mA, 0-10 V)	
	NIPRESS	(4-20 mA, 0-10 V)	
Switches, sensors			
	NIVOFLOAT	(switch)	
	NIVOCONT K	(switch)	
-	NIVOROTA	(switch)	
	NIVOCONT R	(switch)	
	NIVOMAG	(switch)	
	NIVOPOINT	(switch)	
W H	NIVOSWITCH	(switch)	
	UNICONT PK	(switch)	
	Thermocont TS	(Pt100)	