TDE Instruments

Digalox[®] DPM72 AVP / PP Application example Pump control





- Display of a liquid tank's level
- Activation of a pump when going beneath a certain level
- Deactivation of the pump when going above a certain level





- Measurement of the level via an analog sensor
- Display as bargraph





Measurement of the level via an analog sensor





- When reaching a minimum level, output is activated
- Relais starts the pump





- Pump fills the tank
- Measurement of the level via an analog sensor





- When reaching a certain level, output is deactivated
- Relais stops the pump



Connection of the unit







Configuration of the unit using Digalox-Manager

TDE Instrument	ts Digalox Manage	er		l	
nect Settings	Advanced Solar	sh Style Historic D	ata Live Data		
Establish connect Select a COM-poi	tion to a DPM72 un t with status OK be	it. low.		TDE Instrume	ents
COM-Port	Status	Unit name	Model	Serial	
COM15	ОК	Digalox	DPM72-AVP	20312044365957593137303038303332	
Refresh					Connect
Status: Ready to	connect.			Connected	
Status: Heady to	connect.				

- Start Digalox Manager
- Connect

TDE Instruments Digalox Manager	
File Info	
Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode V DC normed 0-10 Scale captions	Use thresholds 🕅
Caption 1 Process	
Process 75 100	
Caption 2 50	
Upper scale caption 100 Lower scale caption 0	
Upper display value Digalox	
Lower display value	_
0	
☑ Limit scaling	
Get settings	Save settings
Status: Ready.	Connected

Choose measurement mode 0-10V normed



- Choose display style "Vertical bar"
- Save display style

TDE Instruments Digalox Manager	
File Info	
Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode	Use thresholds
V DC nomed 0-10 💌	
Tank	
Caption 2	
50 -	
Upper scale caption	
Lower scale caption 0 U.U	
Upper display value Digalox	
100	
Lower display value	
0	
☑ Limit scaling	
Get settings	Save settings
Status: Ready.	Connected

- Change to tab "Settings"
- Type first caption "Tank"

🖾 TDE Instruments Digalox Manager	
File Info	
Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode	Use thresholds
V DC nomed 0-10 V	
Task FIOCESS	
75 -	
Liers 50 -	
100 25	
Upper display value Digalox	
100	
Lower display value	_
0	
✓ Limit scaling	
Get settings	Save settings
Status: Ready.	Connected

Type second caption "Liters"

🖾 TDE Instruments Digalox Manager	
File Info	
Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode	Use thresholds
V DC nomed 0-10 -	
Scale captions	
Caption 1 100 Process	
Tank 75 -	
Caption 2	
Liters 50 -	
Upper scale caption	
2000	
Lower scale caption 0.0	
0	
Divelop	
Upper display value	
100	
Lower display value	
0	
✓ Limit scaling	
Get settings	Save settings
Status: Ready.	Connected

Enter upper display caption 2000

TDE Instruments Digalox Manager	
File Info	
Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode	Use thresholds
V DC normed 0-10 -	
Scale captions	
Caption 1 100 Process	
Tank 75 -	
Caption 2	
Liters 50 -	
Upper scale caption	
2000	
Lower scale caption 0.0	
Direlox	
Upper display value	
2000	
Lower display value	
0	
✓ Limit scaling	
Get settings	Save settings
Status: Ready.	Connected

- Enter upper display value 2000 (equivalent to 10V)
- Save to view display preview

🖾 TDE Instruments Digalox Manager			
File Info			
Connect Settings Advanced Splash Style Historic Data Live Data			
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.		TDE In:	struments
Mode			Use thresholds 🛛 🗐
V DC normed 0-10 -		Threshold 1-	
Scale captions			0,0
Caption 1 2000	Tank		Off
Tank 1500 -	Liters		Normally closed
Caption 2			Trigger Backlight 📃
Liters 1000 -			Hysteresis (absolute)
Upper scale caption			0.00
2000 500 -			
Lower scale caption 0	0	Threshold 2	
0			0,0 🚔
			Off
Upper display value Digato	X		Normally closed
2000			Trigger backlight 📃
Lower display value			Hysteresis (absolute)
0			0.00
✓ Limit scaling			5,00 V
Get settings			Save settings
Status: Ready.		Connected	

Activate thresholds

TDE Instruments Digalox Manager	
File Info Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode V DC normed 0-10 Scale captions Caption 1 Tank Caption 2 Liters Upper scale caption 2000 Lower scale caption 0	Use thresholds V Threshold 1 1100 Off Normally closed Trigger Backlight Hysteresis (absolute) 0,00 Threshold 2 0,0 Threshold 2
Upper display value Digalox	Normally closed Trigger backlight
Lower display value 0 Imit scaling	Hysteresis (absolute)
Get settings	Save settings
Status: Ready.	Connected

- Enter threshold value 1100
- This is the center of the filling range

🖾 TDE Instruments Digalox Manager			
File Info			
Connect Settings Advanced Splash Style Historic Data Live Data			
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.		TDE Ins	struments
Mode			Use thresholds 👿
V DC normed 0-10 -		Threshold 1	
Scale captions			1100,0 🚔
Caption 1 2000	Tank		Off 🗸
Tank 1500 -	Liters		Off Upper
Caption 2			Lower
Liters 1000 -			Hysteresis (absolute)
Upper scale caption			0,00
2000 500 -			
Lower scale caption 0	U	Threshold 2	0.0 🛋
0			0,0
Digalox			Off 👻
			Normally closed
			Trigger backlight 📃
			Hysteresis (absolute)
			0,00 🖨
Get settings			Save settings
Status: Ready.	(Connected	

Select threshold "Lower"

TDE Instruments Digalox Manager	
File Info	
Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode	Use thresholds 📝
V DC normed 0-10 -	Threshold 1
Scale captions	1100.0
Caption 1 2000	Tank Off -
Tank 1500 -	Liters Normally closed
Caption 2	Trigger Backlight
Liters 1000 -	Hysteresis (absolute)
Upper scale caption 500 -	1400 💌
Upper display value Dig	alox Nomally closed
2000	
Lower display value	
0	
✓ Limit scaling	0.00 -
Get settings	Save settings
Status: Ready.	Connected

- Enter hysteresis 1400 (amount to be filled)
- Save to view display preview

🖾 TDE Instruments Digalox Manager	
File Info Connect Settings Advanced Splash Style Historic Data Live Data	
Modify mode based settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Mode V DC normed 0-10 Scale captions Caption 1 Tank Caption 2 Liters Upper scale caption 2000 Lower scale caption 0	Use thresholds Threshold 1 1100,0 Lower Nomally closed Trigger Backlight Hysteresis (absolute) 1400,00 Threshold 2 0,0
Upper display value Digalox	Off Normally closed Trigger backlight
Lower display value 0 V Limit scaling	Hysteresis (absolute)
Status: Ready.	Connected

- Thresholds are shown
- Output 1 is activated

TDE Instruments Digalox Manager	
File Info	
Connect Settings Advanced Splash Style Historic Data Live Data	
Modify advanced settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
Unit name Digalox	Output names
	Output 1
	Pump on
Activate measure stream Liters	Output 2
Apimate pointer Out 1	Out 2
Show statianization 1000 -	
Contrast 0 U	
7	
Activate backlight Digalox	
PIN	
0000	
Get settings	Save settings
Status: Ready.	Connected

- Change to tab "Advanced"
- Type text for output 1 "Pump on"

File Info Connect. Settings. Advanced settings. Press "save" to transfer the settings to the unit's permanent memory. TDE Instruments Unit name Digalox Digalox Imebase for measure log 24 h . A chivate measure stream . A chivate measure stream . Show stat-animation . Splash duration (s) . 4 . Contrast . 7 . Ø Activate backlight . PIN . Otopo . Get settings . Status: Resdy. .	TDE Instruments Digalox Manager	
Connect. Settings Advanced Splash Style Historic Data Live Data Modify advanced settings. Press "save" to transfer the settings to the unit's permanent memory. TDE Instruments Unit name Digalox Tunebase for measure log Output names Output 1 24 h • • Output names Output 1 Activate measure stream Arimate pointer Show start-animation Output 0 Output 2 Splash duration (s) 4 • Output Output Contrast 7 • O Digalox Digalox Time • • • Output names Output 1 1000 0 0 • • Output names Output 1 9 Activate backlight • • • • • • 9 Activate backlight • • • • • • • 9 Output • • • • • • • • 0000 • • • • • • • <td>File Info</td> <td></td>	File Info	
Modify advanced settings. Press "save" to transfer the settings to the unit's permanent memory. Lint name Digalox Timebase for measure log 24h Activate measure stream Animate pointer Show start-animation Splash duration (s) 4 Contrast 7 © Activate backlight PIN 000 Get settings Save settings	Connect Settings Advanced Splash Style Historic Data Live Data	
Unit name Digalox Timebase for measure log 24h Activate measure stream Activate backlight PiN D000 Cet settings Save settings Save settings Save settings	Modify advanced settings. Press "save" to transfer the settings to the unit's permanent memory.	TDE Instruments
24h Activate measure stream Activate measure stream Animate pointer Show start-animation Splash duration (s) 4 Contrast 7 Activate backlight PIN 0000	Unit name Digalox Timebase for measure log	Output names Output 1
Activate measure stream Activate measure stream Animate pointer Show start-animation Splash duration (s) 4 Contrast 7 Activate backlight PIN 0000		Pump on
Animate pointer Image: Show start-animation Splash duration (s) 4 Contrast 7 Image: Show start-animation Splash duration (s) 4 Contrast 7 Image: Show start-animation Splash duration (s) 4 Image: Start	Activate measure stream Litters	Output 2
Primate pointer Show start-animation Splash duration (s) 4 Contrast 7 Activate backlight PIN 0000 Get settings Save settings Save settings Status: Ready. Image: Connected	Pump on	Out 2
Show start-animation Splash duration (s) 4 Contrast 7 Image: Contrast in the second sec	1000 -	
Splash duration (s) 4 Contrast 7 Ø Activate backlight PIN 0000 Get settings Save settings Status: Ready. Image: Connected	Show start-animation	
4 Image: Contrast 7 Image: Contrast Ø Activate backlight Digalox Digalox 0000 Save settings Get settings Save settings Status: Ready. Image: Connected	Splash duration (s) 500 -	
Contrast 7 Image: Contrast 7 Image: Contrast Image: Contrast Contrast Image: Contrast Contrast Contrast Image: Contrast Co		
/ / <td></td> <td></td>		
Activate backlight PIN 0000 Get settings Save settings Status: Ready. Image: Connected		
PIN 0000 Get settings Save settings Status: Ready.	Activate backlight Digatox	
Get settings Save settings Status: Ready. Connected Connected Connected 	PIN	
Get settings Save settings Status: Ready. Connected Connected Connected Connected 	0000	
Get settings Save settings Status: Ready. Onnected Onnected		
Status: Ready. Onnected	Get settings	Save settings
	Status: Ready.	Connected

Configuration completed

TDE Instruments

Thank you for your attention!

TDE Instruments GmbH Gewerbestraße 8 D-71144 Steinenbronn Info@tde-instruments.de +49 7157 20801



TDE Instruments GmbH