



DTS View

Configuration & Monitoring Software System

The DTS View Configuration & Monitoring Software System from Measurlogic Inc. has been developed specifically for use with the DTS range of electrical measurement, communications and display products.

This Microsoft Windows[™] based system is easily installed within minutes on most standard personal computers. In the configuration mode, DTS View allows for the configuration of all input and output variables on the DTS 100, DTS 300, DTS Plus, and DTS Display products.

DTS View also provides the user with ease of remote configuration of the communications parameters of the DTS Com device.

In the monitoring mode, DTS View allows for the real-time monitoring and logging of user selected variables. DTS View allows for simple remote diagnostics of the DTS range of electrical measurement modules and their output extender modules for first-line maintenance and commissioning purposes.

DTS View does not require any specialised hardware and will run on most standard personal computers. In general, DTS View's user interface makes use of standard Windows[™] screens, menus and techniques, making for simple navigation and operation. Pulldown menus, icons and help functions make most of the operations selfexplanatory and minimises the need for specific training courses.

DTS 100 & DTS 300 Configuration

- Inputs
- Outputs
- Serial transmission parameters
- Number of measured channels
- Diagnostics

DTS Plus Configuration

- Outputs
- Diagnostics

DTS Display Configuration

- Display parameters
- Nominal values
- Hi and Lo alarm values

DTS Com Configuration

- Communications parameters
- Protocol selection

Monitoring Functions

- Real-time display and logging of up to 30 variables
- Easy addition, removal and grouping of displayed data

- Windows® 95, 98, NT, 2000 & XP
- Real-time Monitoring
- Configuration of full range of DTS products
- Diagnostic tool
- User-friendly interface
- Standard PC hardware platform





Installing DTS View

The DTS View Installshield© Setup Wizard makes installation of the software easier than ever.

Before You Begin

Before you install DTS View, make sure your computer meets the following minimum system requirements:

- 486DX, 66MHz or higher processor
- 24MB of RAM
- 2MB of space available on your hard disk drive
- VGA or higher resolution monitor (preferably 800 x 600)
- Pointing device
- Standard serial port

Running DTS View Setup

Insert the DTS View CD into your disk drive or download DTS View files from www.measurlogic.com.

Select "Start" - "Run".

The Run dialog appears prompting for a file to Open.

Type "View1-XX.exe" and select the "Ok" button. Win-zip will run and ask for the folder to which the files will be extracted. In the Folder selected you will find 2 sub folders called DISK 1 and DISK 2. In the DISK 1 folder select and run "setup.exe" The Installshield© Wizard will now guide you through the installation procedure.

Running DTS View Software

To run the DTS View software, select the DTS View icon from your desktop or select "Start" - "Programs" - "Measurlogic" - "DTS View".

Getting Started

DTS View's user interface makes use of standard Windows[™] screens, menus and techniques, making for simple navigation and operation. Pull-down menus, icons and help functions make most of the operations self-explanatory and minimises the need for specific training courses.

Title Bar>	🔀 Untitled - Measurlogic Digital Transducer System	
Monu Bar	File Configure DTS View Help	
Toolbar		
Main Window		
	Show Secondary Values	
	For Help, press F1	



DTS View Menu Bar

The DTS View menu bar allows the user access to the powerful features of the Configuration & Monitoring software.

File

Used to exit from DTS View.

Configure

The configuration of the attached DTS device is performed using this drop-down menu.

Configure - Inputs

The desired input parameters of an attached DTS 100 or 300 device are configured by accessing this menu item. These include the physical voltage and current connection, as well as the CT and VT ratio for each input.

Configure - Outputs

The desired output parameters of an attached DTS 100, 300 or Plus device are configured by accessing this menu item. These include the scaling of the analog or relay outputs as well as the mapping of the required measurement parameter to the required output.

Configure - Diagnostics

The DTS diagnostic feature allows the user to make, break or pulse any relay output as well as set any value to an analog output. This is extremely useful in commissioning the system.

Configure - Monitors

Allows the user to add, remove and group real time on-screen variables. A maximum of 30 variables can be displayed at one time. It also provides for the logging of variables to a delimited text file.

Configure - Display

The user can configure the position of a selected variable on any of 3 lines per page of information. A maximum of 8 pages are available. For each variable, the user can configure its nominal value as well as HIGH and LOW alarm thresholds.

Configure - Com

The desired parameters of an attached DTS Com are configured by accessing this menu item. These include the baud rate and the device address.

Configure - Options

The user can provide their name to be attached to print files.

DTS

The communication to and from an attached DTS 100 or 300 device, as well as setting up the transmission parameters, registering your DTS View software to make use of the calibration features of DTS View, and restoring factory settings are accessed using this menu.

DTS - Upload from DTS

The parameters of an attached DTS 100, 300 or Plus device are uploaded into DTS View.

DTS - Download to DTS

New parameters are downloaded to an attached DTS 100, 300 or Plus device. Caution should be exercised as this will overwrite the existing setup profile of the attached DTS device.

Configure	DTS	Vie
Inputs Outputs Diagnos Monitors	 tics ;	
Display Com Options		



Selection of any of the above configuration functions will result

in the relevant Configuration dialog. No configuration of any of the above items can be made without the correct DTS device connected and its information uploaded into DTS View.

DTS	View	Help	
Up	load fro	om DTS	
Do	wnload	to DTS	
Tra	ansmiss	ion Setup	
Re	gistrati	on	
Re	store F	actory Defaults	۲
Qu	Jery Tal	k Version	
Pa	ssword		



DTS - Transmission Setup

The desired serial port and setup is configured by selecting this menu item. The default is a baud rate of 9600, no parity, 8 data bits and 1 stop bit.

DTS - Registration

Allows for the registration of DTS View to make use of its powerful calibration features.

DTS - Restore Factory Defaults

Allows the user to restore factory default settings for an attached DTS device.

DTS – Query Talk Version

Allows the version of DTS Talk protocol to be identified for an attached DTS device.

DTS – Password

Allows the user to specify a password preventing unauthorized persons from altering DTS configurations.

View

Used to toggle toolbar and status bar on and off.

Help

DTS View About screen and help.

DTS VIEW TOOLBAR

Visual button style access to the most important DTS View menu bar functions.



The desired output parameters of an attached DTS 100, 300 or Plus device are configured by selecting this button.



ELECTRICAL MEASUREMENT SOLUTIONS





Provides On Line HELP with DTS View



Configuring a DTS 100, 300 or Plus

Before You Begin Configuration

Ensure that a DTS device (DTS100 or 300 with/without DTS Plus) is connected to your PC with the correct communications cable. The attached DTS devices should have an auxiliary supply connected and the Power LED indicating an "on' condition.

It is essential that you **Upload from DTS** to be able to configure the attached device. Should you not upload from DTS prior to accessing any of the Configure menu items or toolbar buttons, DTS View will not allow the entry of any parameters. DTS View will Inform you of a completed upload.



Configuring DTS 100/300 Inputs

Select Inputs from the drop-down menu or the Configure Inputs toolbar button. The DTS Input Configuration dialog appears.

The dialog contains four tabs namely *Channel 1, Channel 2, Channel 3* and *3 Phase Settings*. The first three tabs are identical and each represents an individual input channel on the connected DTS. In the case where an upload was performed from a connected DTS 100, only channel 1 becomes available for configuration, while the remaining two channels are selectable but completely disabled. If an upload was performed from a DTS 300 all three channels are enabled for configuration. The *3 Phase Settings* tab allows the toggle between Line-Neutral or Line-Line display of voltages.

DTS Input Configuration	×		
Channel 1 Channel 2 Channel 3 3 Phase Settings			
Name : Ch1 Balanced 3-phase			
Voltage Input			
Phase: V[an]			
Primary: 120V 💌 : Secondary: 120V 💌			
Coupled Directly			
Current Input			
Phase: I[a] Range : 5.000 A			
Primary: 5.000 A : Secondary : 5.000 A ▼			
Coupled Directly			
CT Phase Correction (degrees) : 0.2			
OK Cancel Apply Help			

Each channel tab contains a *Name* field, which could be used for a descriptive text string up to a maximum of 20 characters. It further contains two frames, one for the *Voltage Input* and another for the *Current Input*.



Voltage and Current Input frame:

Voltage phase selection is done from within the *Phase* combo box shown below.

DTS Input Configuration	×		
Channel 1 Channel 2 Channel 3 3 Phase Settings			
Name : Feeder 1 Balanced 3-phase			
Voltage Input			
Phase: V[an]			
Primary: Not Connected Independent V[an] Secondary : 70.00 ∨ ▼			
V[bn] V[cn]			
Current Inc V[ab]			
Phase: I[a] Range: 5.000 A			
Primary: 5.000 A : Secondary : 5.000 A -			
Coupled Directly			
CT Phase Correction (degrees) : 0.2			
OK Cancel Apply Help			

In the case where a voltage input is not required, this parameter can be specified as **Not Connected**. It can also be selected as **Independent** in which case the same selection should be made for the current phase. Independent measurement refers to a measurement system where the voltage and current input sources are unrelated.

The remaining options are used to describe the phase relationship between the connected voltage and current for that particular channel. Here it is of utmost importance to specify the correct phasing relationship in order for the system to calculate the correct power and energy values.

V[an], V[bn] and V[cn] refers to phase-to-neutral voltages for phases A, B and C respectively. V[ab], V[bc] and V[ca] refers to phase-tophase voltages (line voltages) constructed from the addition of phasors V[an]/V[bn], V[bn]/V[cn] and V[cn]/V[an] respectively.

It is important to realise that the voltage and current inputs for each channel in the input configuration dialog is associated with an input pair on a DTS 300 for instance. In other words, channel 1's voltage and current inputs are referring to physical inputs V1 and I1 on the DTS device. Similarly channel 2's voltage and current inputs are associated with physical inputs V2 and I2 on the DTS 300.

To give an example, suggest that a DTS 300 device was connected in WYE with V1 accepting phase A and phase B voltages in that order, V2 accepting phase B and phase C voltages and V3 accepting phase C and phase A voltages, again in that order. The correct voltage phasing setup for this configuration would be to select V[ab] for channel 1's voltage input, V[bc] for channel 2 and V[ca] for channel 3.

Similarly, the current input phasing is done from the *Phase* combo box within the *Current Input* frame. The same rules apply for the current phasing than does for the voltage. DTS would even allow for the measurement of delta line currents, and here the correct phasing selection would be I[ab], I[bc] or I[ca].

The system can further be configured for any voltage/potential transformer (VT/PT) and current transformer (CT) ratios. Simply uncheck the relevant *Coupled Directly* checkbox and supply the VT/PT and CT ratio values. Where a combo box is available one of the standard values can be selected or any custom value can be entered. The primary voltage must be specified in 100 V units. In other words, the program will round an entry of 123456 V to 123,5 kV.

Secondary voltage can be entered in 1 V units, while primary and secondary currents are entered in 1 A units.



DTS Input Configuration
Channel 1 Channel 2 Channel 3 3 Phase Settings
Name : Feeder 1 Balanced 3-phase
Voltage Input
Phase: V[an] Range : 70 ∨
Primary: 4160 ▼ : Secondary : 120V ▼
Current Input
Phase: [[a] Range : 5.000 A
Primary: 250 : Secondary : 5.000 A 💌
Coupled Directly
CT Phase Correction (degrees): 0.2
OK Cancel Apply Help
Template : 🛱 🗖 🔽 🚑
n existing template
e template
e template with a new name

Configuring DTS 100/300 or Plus Outputs

Select Outputs from the Configure drop-down menu or the Configure Outputs toolbar button.

The DTS Output Configuration dialog appears. At this point it is assumed that a successful upload has been performed from the attached DTS device. In case you wish to make alterations to the configuration of one or more DTS Plus devices, these devices have had to be connected to a DTS 300 device and powered before the upload from the DTS 300 was performed (Refer to the DTS Plus user manual for details on how to connect DTS Plus devices to a DTS 300 device).

The DTS Output Configuration dialog contains twelve possible physical outputs, each with an associated configure button. These outputs appear as combo-boxes and are normally disabled to the user. The option shown in each is the factory fitted configuration and cannot be altered by the user. One of four different cases will apply to each output slot:

- 1) "Analog Output" the factory configuration for the particular output slot was for an output of the analog type.
- 2) "Relay Output" the factory configuration for the particular output slot was for an output of the relay type.
- 3) "Not Available" no output was installed in the particular slot.
- 4) Blank box A virtual slot was not found for the particular output. In the case of a DTS100 only the first four output slots actually exist. The remaining eight slots would appear blank.



DTS Outpu	t Configuration		
🖻 🖬 🖻	6		
Output 1	Analog Output	-	Configure
Output 2	Analog Output	-	Configure
Output 3	Analog Output	~	Configure
Output 4	Relay Output	-	Configure
Output 5	Not Available	-	Configure
Output 6	Not Available	~	Configure
Output 7	Not Available	-	Configure
Output 8	Not Available	~	Configure
Output 9	Not Available	-	Configure
Output 10	Not Available	-	Configure
Output 11	Not Available	-	Configure
Output 12	Not Available	-	Configure
Close			

Configuring an Analog Output

To configure any available analog output, click on its associated configure button in the **DTS Output Configuration** dialog.

The dialog displays the currently selected entity and phase information, minimum and maximum engineering values and their corresponding output values, a nominal output range selection, and a checkbox labelled **Secondary**.

Analog Output Configuration	
Measured Entity Active Power : 3 Phase Change	OK Cancel
Minimum / Maximum Values Max : 1.042 kW Corresponds to 20 mA	•
Min : -1.042 kW Corresponds to 4.0 mA	•
Secondary Values Range : 20mA	



The range setting gets factory set to the customers' requirements and is disabled under normal conditions. The value given for the range indicates the nominal output value and also the type of output: current (mA) or voltage (V).

The first step in configuring or re-configuring any output is to select the required input (measured) entity for the operation. Click on the *Change* button inside the *Entity* frame. The *Entity Selection* dialog appears.

For analog outputs only current, voltage, frequency, power factor, and all power entities are available for selection. These are all nonaccumulative entities. Once the required entity has been selected, the user must specify which phase (if multiple phases are available) is to be assigned to the output. Once this has been done, click on O.K. The new entity and phase info is now displayed in the **Analog Configuration** dialog.

DTS View will provide default values for minimum and maximum engineering values. The maximum value is based upon the nominal voltage and current input ranges, assuming unity power factor. For frequency the default minimum and maximum values are 45Hz and 55Hz respectively.

The user can edit these values by clicking inside the appropriate box and typing the new value in base units, or kilo/mega units where scaling is performed in primary units. Take care when typing minimum and maximum values. First confirm the status of the **Secondary** checkbox. If this box is checked, minimum and maximum values must be given as secondary quantities. If this is not done it will result in massive scaling errors. Next select the corresponding analog output values from the respective combo boxes.

If the scaling was done in secondary units (**Secondary** checkbox checked), uncheck the **Secondary** checkbox to confirm the correct primary value scaling. Once you are satisfied with the configuration, click on the O.K. button in the top right hand corner of the **Configure Analog Output** dialog. DTS View returns to the **DTS Output Configuration** dialog. If you wish to configure another analog output click on its corresponding **configure** button. If you are done configuring outputs, close the **DTS Output Configuration** dialog in the bottom left hand corner.

NOTE

Remember, settings will only take effect once a successful download has been performed to the attached DTS device.

Configuring a Relay Output

To configure any available relay output click on its associated *configure* button in the *DTS Output Configuration* dialog.

The dialog displays the currently selected entity and phase information. The dialog further contains a threshold and pulse section. If any non-energy entity is selected (voltage, current, power etc.), the threshold output section is automatically enabled and the pulse output section is disabled. If an energy entity is selected, DTS View disables the threshold section and enables the pulse output section.

Click on the change button inside the entity frame. The **Choose Measuring Entity** dialog appears. For relay outputs all possible entities are available for selection. Make the required entity and phase selection and click on the O.K. button. The new entity and phase information is displayed.

Configure threshold relay outputs

Relay Output Configuration	\mathbf{X}
Measured Entity Current : Ch1 / Phase A	Change Cancel
Pulse Output-	Pulses/hour : 0 👘
Threshold Output	
	Trigger at 3.5 A
	% Hysteresis 5.00%
	Trigger on rising values
Secondary Values	Trigger on falling values



If any non-accumulative entity was selected, DTS View enables the threshold output section. A threshold value can be specified in either primary or secondary units (check status of **Secondary Values** checkbox), together with a percentage hysteresis. The hysteresis value is taken as a percentage of the threshold value and not the nominal output value. The user can further specify the method of triggering, as either rising or falling edge.

The solid-state relay present inside the DTS device has only one contact. Triggering will energise the relay causing an approaching short-circuit of the particular output contact pair on the DTS device.

In case of a rising edge configuration, the relay will energise when the measured value exceeds the specified threshold value. The relay will de-energise once the measured value drops below the specified threshold value less the specified percentage of the threshold value.

In case of a falling edge configuration, the relay will energise when the measured value first drops below the specified threshold value. The relay will de-energise once the measured value exceeds the specified threshold value plus the specified percentage of the threshold value.

Configure pulse relay outputs

Relay Output Configuration	
Measured Entity Active Energy Import : 3 Phase	OK Change Cancel
Pulse Output Power : 1.050 kW	Pulses/hour : 150
- Threshold Output-	Trigger at 130.0 V
	Trigger on rising values
Secondary Values	

If any accumulative entity was selected (energy), DTS View enables the pulse output section. A power value (active, apparent or reactive) can be specified in either primary or secondary units (check status of **Secondary Values** checkbox), together with a pulsesper-hour pulse rate. In other words, the system is provided with a quantity of power, which is equated to a number of pulses in a specified time.

To put this into perspective let's look at an example. Suggest that the pulse output was configured for 1 kW and 3600 pph (pulses-perhour). The system is started and the pulse counter is reset to zero. Now you apply exactly 1 kW to the inputs for exactly 1 hour. The reading on the counter after one hour would be 3600. To convert this to kWh, simply divide the number of pulses, at any point in time, by 3600. Let's say that the input power is reduced to 500 W after one hour, and kept at that level for another hour. After this hour the counter total would be 3600 + 1800 = 5400. Take the total count and divide by 3600 to yield 1.5 kWh.

Alternatively, if the configuration parameters provided an energy per pulse specification, say one pulse equals 0.3 Wh of energy, the following conversion needs to be done to configure the pulse output correctly:

Energy-per-pulse = 0.3Wh

Power = Energy-per-pulse * pph (choose pph as 3600 or less)

- = 0.3Wh * 3600
- = 1080W
- = 1.08kW



OR

- Power = Energy-per-pulse * pph
 - = 0.3Wh * 1800
 - = 540W

Both of the above configurations will yield the same result. In the case of 3600 pph specified, the proportional power quantity must be 1.08kW to achieve 0.3Wh per pulse. In the case of 1800 pph specified, the proportional power quantity must be 540W to again achieve 0.3Wh per pulse.

Configuring of DTS monitors and logging:

Select *Monitors* from the *Configure* drop-down menu or the *Configure Monitors* toolbar button.

The DTS **Configure Monitoring** dialog appears. Once again it is assumed that a successful upload has been performed from the attached DTS device.

The dialog contains a list of already monitored entities, add and remove buttons, display positioning buttons, and open- and close log buttons. If monitors were previously set up for a particular installation of DTS View, these monitors will re-appear on the screen after the first successful upload from a DTS 300 or DTS 100. Any non-relevant or invalid monitors for the upload will be removed automatically.

Monitor Configuration	
Monitored Entities	Close
Voltage : Ch1 / Phase A Voltage : Ch2 / Phase B Voltage : Ch3 / Phase C	Cancel
Current : Ch1 / Phase A Current : Ch2 / Phase B Current : Ch2 / Phase B	
Active Power : 3 Phase Apparent Power : 3 Phase	
Reactive Power : 3 Phase	-> Bemove
	Open Log
	Close Log

Adding entities to be monitored

To add an entity to the list to be displayed, simply click on the **Add** button in the **Configure Monitoring** dialog. The **Choose Measuring Entity** dialog appears. Select the electrical entity from the list of available entities and specify a phase. Click on the **Add** button next to the **Close** button. Repeat this process for all the required entities. Once done, click on the **Close** button to return to the **Configure Monitoring** dialog. The new list of entities is displayed.

To rearrange the selection of entities, click on a particular entity to highlight it, and then scroll it to the required position in the list using the up/down arrow buttons on the dialog.

Removing entities already being monitored

Select an individual entity by clicking on its description in the list. The selection is highlighted. Click on the *Remove* button to remove the entity from the list. To select and remove more than one entity in one operation, click on the first entity and drag the cursor down to the last entity to be removed. The entire range of entities is highlighted. Click on the *Remove* button to remove the selected entities.



Choose Measuring Entity		? 🛛
Electrical Entity Voltage (V) Current (A) Active Power (W) Apparent Power (VA) Reactive Power (VAr) Power Factor Frequency (Hz) Active Energy (Wh) Apparent Energy (VAh) Reactive Energy (VAh) Reactive Energy (VArh) Reactive Energy (VArh) Active Energy (VArh) Reactive Energy (VArh) Cactive Energy (VArh) (Lead) Cactive Energy (VArh) (Lead) Cactive Energy (VArh) (Lead) Cactive Energy (VArh) (Lead) Cactive Energy (VArh) (Lead)	Add Channel / Phase Ch1 / Phase A Ch2 / Phase B Ch3 / Phase C S Phase	Close

Opening and closing of logging files

To start a log file in the **Configure Monitoring** dialog, pre-select the monitors to be logged. Only selected monitors will be logged. By clicking on the **Open Log** button, the user specifies an already existing log file for overwriting, or a new file name. Select an appropriate logging interval in seconds and click on the **OK** button. Logging to a semicolon delimited text file will commence once all dialogs are closed.

To terminate the logging process, simply open the **Configure Monitoring** dialog and click on the **Close Log** button. The file is closed and can now be accessed by other programs for analysis and processing.

Select Log File	?	X
Save in: 🔀	Logs 💽 🗢 🖻 📸 📰 -	
File name:	DTSLog1 Save	
Save as type:	DTS log files (*.log)	
Logging Interva	(sec): 2	



Should you wish to monitor the secondary values on-screen, simply check the Show Secondary Values check box that appears below the on-screen monitors.

😹 Untitled - Measurlogic Digital Transducer System							
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☆ ₹ <u>×</u>	• 🔺 🖬 👘	<mark>№</mark> ? №?					
Voltage : Ch1 / Phase A Current : Ch1 / Phase A Active Power : 3 Phase	119.8 ∨ 2.539 A 265.0 ₩	Voltage : Ch2 / Phase B Current : Ch2 / Phase B Apparent Power : 3 Phase	119.8 V 2.525 A 522.0 VA	Voltage : Ch3 / Phase C Current : Ch3 / Phase C Reactive Power : 3 Phase	119.7 V 2.524 Α -448.0 VAΓ 		

The Status Bar at the bottom of the screen indicates the communications status between DTS View and the attached DTS device.

An LED labelled COMMS changes from green to red depending on the communications status. Green representing communication between DTS View and an attached DTS device while red indicates a communications break.



COMMS 🥚 Communication Break



Configuring DTS Display

Before selecting **Display** from the **Configure** drop-down menu or the **Configure DTS Display** toolbar button, ensure that the DTS Display has been connected to the proper serial port on your PC. By selecting one of these options, an "upload" is effectively performed from the display.

The **DTS Display Configuration** dialog appears. At this point the dialog will display the current setup of the connected DTS Display. Any parameter can now be edited, or the user can open an existing template (see section on DTS Templates) for download to the display.

DTS Display Confi	guration - []		×
- Select Current Page Page : 1 📩 Line : 1 🕂	• & Line	Clea Defau	r
Layout for the Curre Channel : D 1 F	nt Page & Line isplay Value : Primary Voltage	Decimal	Point : Units :
Set Points for the C Nominal : 4160 ∨	urrent Page & Line Low : 3952 V		High : 4368 V
2		ОК	Cancel

Scroll through the up- and down-arrows in the **Select Current Page & Line** frame to select a preferred page and line to be edited. In the **Layout for the Current Page & Line** frame, select the preferred **Channel**. One to three represents an actual input channel on a DTS device. For a DTS Display to be connected to a DTS 100, only channel 1 can be used. For a DTS 300, all three channels and the 3-phase virtual channel apply. Select the value to be displayed as either secondary or primary from the **Display Value** drop-down box.

To configure the way in which a particular value is displayed, the correct combination of **Units** and **Decimal Point** must be selected. If units are specified as kilo it would result in a scaling factor a thousand times smaller than when base units are specified. For example, if the primary voltage is to be displayed, lets say 11000V, with units selected as V the displayed value will be 11000 V with a decimal point specified as (0.). If units were specified as kV, the displayed value will be 11.00 kV with a decimal point specified as (0.00). Any nominal, low and high values can be specified as long as they make sense logically. These values are merely for indicative purposes and if any of the high and low conditions are met, the DTS-Display will merely give a visual indication to the operator by displaying the variable in reverse video mode.

Use can be made of a previously saved display template for configuration, or the user can save a just-configured template for future use.

Once satisfied with the entire configuration, simply click on the OK button to perform a download to the attached DTS-Display device.



Configuring the Communication Parameters

The Communication parameters can be configured via DTS View depending on the specific configuration of DTS 100 or 300 ordered. For the DTS 300 device the communications port is built into the device and can be configured by selecting *Com* from the pull-down menu *Configure*. It can also be configured using the DTS Com icon on the toolbar. In the case of a DTS 100 device, the communications port is in the DTS Com module which is separate from the DTS 100. With The DTS Com module connected to the DTS 100 it can be configured by selecting *Com* from the pull-down menu *Configure*. It can also be configured by selecting *Com* from the pull-down menu *Configure*. It can also be configured by selecting *Com* from the pull-down menu *Configure*. It can also be configured using the DTS Com icon on the toolbar.

The DTS Com Configuration dialog is now displayed.

The Unit ID, Attached device, Baud rate, Parity, Data Bits, Stop bits, Handshake as well as the required protocol can be selected and modified in the dialog.

Once configured, download the new configuration by clicking on the **OK** button.

DTS-Com Configuration					
Serial Number :	200108004		ОК		
Slave ID :	100	_	Cancel		
Attached Device :	DTS 300	•			
Baud Rate :	9600	•			
Parity :	None	•			
Data Bits :	8	•			
Stop Bits :	1	•			
Handshake :	None	•			
Protocol :	Modbus RTU	•			



Contact Details

Measurlogic Inc., synonymous with the design and manufacturing of electrical measurement systems for the past 30 years, introduces a flexible and fully configurable range of new generation, digital electrical measurement solutions. Measurlogic has a long and proven track-record of manufacturing, providing and supporting high quality analog electrical measurement products and has rightly been recognised as a world leader in this field.

Measurlogic Inc. can also provide a complete range of power monitors, electrical transducers, Power Quality Recorders and Analyzers as well as the DPI and VDC range of Voltage Dip Proofing Inverters. DTS is a family of products which caters for all electrical measurement applications - from the most simple single-phase measurements to the most advanced multi-phase monitoring and control applications. DTS provides for the needs of all users in all applications - from the power supply industry to power users, from energy management consultants to system planners, from managers to engineers, from maintenance technicians to project leaders, from refurbishment of existing plants to new installations.

Note : Information and specifications in this document are subject to change at any time.



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