![PurpleSwift logo]

DTerm
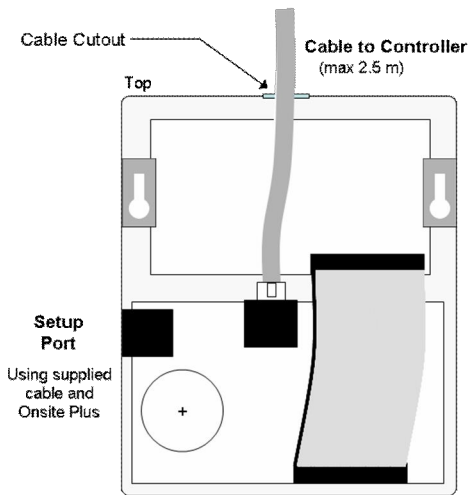# Keyboard & Display Unit

D-Series Controls
PurpleSwift Software cc
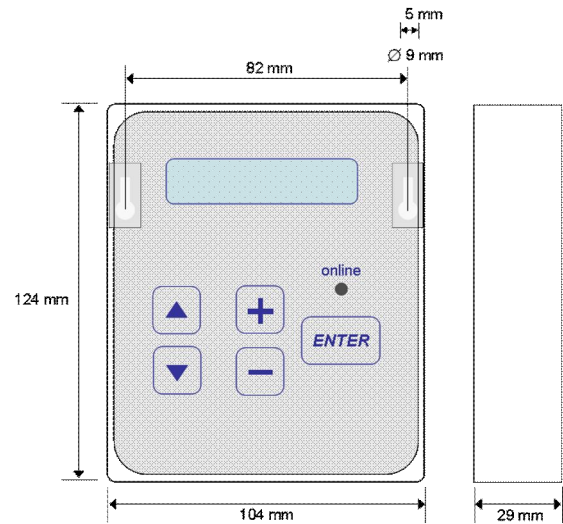Tel / Fax: +27 21 761 8264
Email: controls@purpleswift.com

The **D-Term** Keyboard and Display Unit is a simple user interface that can be used to view the individual input and outputs of the D-Series Controllers. The D-Term also provides the facility to manually adjust the controller outputs.

Connections

The D-Term connects to the D-Series Controller via a rear mounted RS-232 connector. Also a second RJ12 connector is fitted to the side of the housing and provides a RS-232 connection to the SBT System computer.

Dimensions

Operation

The Display

The 16 digit, 2 line display provides the following information:

```
        DO 3
(11)   OFF
```

Top Line:

The top line displays the Description of the particular connection being viewed (i.e. DO3 is the default description for Digital Output number 3). This description can be changed using the Onsite Plus© software that is used to customise the configuration of the controller.

Bottom Line:

This line shows two pieces of information;
i. The number, in brackets, of the actual Point number of the connection being viewed, i.e. (12) is for Digital Output number 4. These values cannot be changed.
ii. The current status or value at the connection.

Note: *Before the current value is displayed, a **Wait . . .** prompt will be displayed while the value is being obtained.*

The System Controls

▲ and ▼ Controls:

Used to scroll through and view the available controller Input and Output values.

+ and - Controls:

Used to adjust the controller Output values.

ENTER key:

Once a value has been changed using the + or – keys, use the **ENTER** key to send the command to the controller.

online LED:

Will illuminate when communicating with the controller.

Note: *The available displays and adjustments that can be performed from the D-Term are dependent on the type of controller and the software configuration being used. Refer to the particular Controller documentation for more detail.*

At Power-up

When power is applied, the D-Term will display the following information:

```
CBS Controls
DC4  ver M
```

Where: DC4 = the type of controller
          ver M = the software version

View Digital Inputs (DI 1 *to* DI 8)

Press the scroll arrows (the Down then Up scroll arrow) and the first digital input point value will be displayed (ON or OFF).

```
DI 1
(1)   OFF
```

Press the down scroll arrow and each of the Digital Input values will be displayed in turn (up to DI 8).

View Digital Outputs (DO 1 *to* DO 8)

Continue pressing the scroll arrow and the value of the first Digital Output will be displayed (ON or OFF).

```
D0 1
(9)   OFF
```

Continue pressing the scroll arrow and each of the Digital Output values will be displayed in turn (up to DO 8).

Change a Digital Output

To change the Digital Output value, obtain the display of the digital output (DO 1 to DO 8) to be changed and then use the **+** or **–** sign to toggle the value (can only be On or OFF). Once the required value has been set, press the **ENTER** key.

View Analogue Inputs for NTC Thermometers

Continue pressing the scroll arrow and the value of the first Analogue NTC Thermistor Input will be displayed (in Degrees C).

```
TEMP 1
(17)  42.50 DEG C
```

Continue pressing the scroll arrow and each of the Analogue NTC Thermistor Input values will be displayed in turn (up to TEMP 8).

View Analogue Inputs for a 0 – 10V Input Device

Continue pressing the scroll arrow and the value of the first Analogue Input will be displayed (in Percentage).

```
AI 1
(25)   83.00 PCT
```

Continue pressing the scroll arrow and each of the Analogue Input values will be displayed in turn (up to AI 8).

Note: *The analogue inputs numbered (17) to (24) and those numbered (25) to (32) are the same physical analog inputs on the DC4. When the analog input is connected to a NTC thermistor temperature sensor, then the points 17 to 24 are used. When using the analog input as 0 to 10 Volts then points 25 to 32 are used.*

View Analogue Outputs (AO 1 *to* AO 4)

Continue pressing the scroll arrow and the value of the first Analogue Output will be displayed (in Percentage where 100% represents 10 Volts).

```
A0 1
(33)   83.0 PCT
```

Continue pressing the scroll arrow and each of the Analogue Output values will be displayed in turn (up to AO 4).

Change an Analogue Output

To change the Analogue Output value, obtain the display of the analogue output (AO 1 to AO 4) to be changed and then use the **+** or **–** sign to change the value (adjustable in 0.5 percent steps). Once the required value has been set, press the **ENTER** key.