Classification	ISaGRAF Englis	h FAQ-157	7						
Author	Spike Huang	Version	1.0.0	Date	Nov.2012	Page	1/7		
 How to link to the Temperature and Humidity module, DL- 100T485, with the ISaGRAF PACs? The following ICP DAS ISaGRAF PACs support DL-100T485 for DCON protocol. μPAC-7186EG/EGD (ISaGRAF driver 1.19 or late) iPAC-8447/8847 (ISaGRAF driver 1.16 or late) 									
 WINPAC-82 XP-8xx7-CE VP-25W7/2 	 WinPAC-8147/8447/8847, WinPAC-8146/8446/8846 (ISaGRAF driver 1.52 or late) XP-8xx7-CE6/8xx6-CE6 (ISaGRAF driver 1.32 or late) VP-25W7/23W7, VP-25W6/23W6 (ISaGRAF driver 1.44 or late) 								
DL-100T485 Det http://www.io http://www.io DL-100T485/I	DL-100T485 Detail Information: http://www.icpdas.com/en/product/DL-100T485 or http://www.icpdas.com/en/product/guide+IIoT+IO_Sensor+IndustrialSensor#996 DL Series > DL-100T485/DL-100TM485/DL-100T485-W/DL-100TM485-W								
1.1. Restore	the ISaGRAF	Demo Pr	ogram						
 If you cannot find "DL100" in the window "C function blocks" of your PC/ISaGRAF, please get the "DL100.fia" file from the following direction: https://www.icpdas.com/en/download/file.php?num=962 or https://www.icpdas.com/en/faq/index.php?kind=280#751 > English > FAQ 157 or Please visit the webpage to download " io_lib.zip " and install I/O libraries by clicking 									
"setup.exe" after unzip the file. http://www.icpdas.com/en/download/show.php?num=368&nation=US&kind1=&model=&kw=i sagraf									
SagRAF - Project Management									
File Edit I E E C B blinks B bottlef E demo Ffarray E rfbars Ffbool	Import Tools Options Import Archive Libraries Import IL programmer demonstatres demonstrates demonstrates	Help th vario ram cr. Lo progr 1 ar gr 2 ISaGR	Samples ? ous languages duction CAF - Libraries		-				
m rfchart m rfcjfb	Flow Chart: Sa demonstrates complete SFC	Tile <u>E</u> dit C C function di ≹O configur	Tools Options Help blocks C		È - 8 ■ 🗳				

ICP DAS Co., Ltd. Technical Document

et :

2

Target

Target

rage REAL value by a specified interval time

et 1: W-8xx7/8xx6 (driver 4.18 or later)

t 2: uPAC-7186EG (driver 1.06 or later)

Target 6: XP-8xx7-CE6 / XP-8xx6-CE6

C-8x47 (driver 1.04 or later) PAC-8xx7 / 8xx6 (driver 1.18 or later)

Target 5: VP-25W7 / 23W7 / 25W6 / 23W6 (driver 1.09 or

IO complex equipments IO boards Functions

Function blocks C functions

C function blocks

com_sts

crc_16

crc_df1 daylight

Conversion functions

demonstrates u

math sine/cosine

Quick LD progra

: blinker

Date of creation : 08/07/98

Version number : ISaGRAF 3.

Version for ICP-DAS i-7188/i-8000/iView

: ICS Triplex ISaG

: Sequence bety

📺 rfgraph

💷 rfmath

<u>m</u> rfmatri×

Description

Reference

Author



2. Restore "DL100.fia" into the PC / ISaGRAF – C function blocks as the steps shown in the next page.



1.2. Installing and Setting the DL-100T485 Module

Please establish the serial communication between DL-100T485 and PC as the following steps.

Step 1: Install DL series Utility Software

Please get the installation file of DL series Utility (DLUtility.exe) from the accompanied CD or Web: **CD**: \ Napdos\Data_Logger\DL100T485\Utility

Web :

http://www.icpdas.com/en/download/show.php?num=2221&nation=US&kind1=6&kind2=17&mod el=&kw=DL-100T485

Step 2: Wire the Serial connection between DL-100T485 and PC

User can use the RS-232 to RS-485 converter (I-7520) to establish the wire connection between the DL-100T485 and PC as following picture, then connect the power supply (+10 \sim +30 V_{DC}) to the power connector of DL-100T485, as following picture.



Please refer to DL-100T485 Quick Start for more detailed operation:

(http://www.icpdas.com/en/download/show.php?num=1872&nation=US&kind1=6&kind2=31&mo del=&kw=DL-100T485)

ICP DAS Co., Ltd. Technical Document

Classification	ISaGRAF Englis	h FAQ-157	7				
Author	Spike Huang	Version	1.0.0	Date	Nov.2012	Page	4/7
	DL-50/100 Util File Conr	ity 1.0.3 nection F	unctions				
					1 Configu	rations	
	Connection	on is establi	shed.			.::	
Configuration	· No William ·	-	atres 2 di	(
Module ID & Cl	necksum ● Disable	01 Set	Offset: 00.0	(°C) Rea	d Set	Log Functions © Enable Re © Disable	ad
Advanced Log Get the n Log Mode	Functions umber of log records: e: Mode 0 Mo	0	2 Read Read	Clear Set	Log Time	Intervals 3 10 Seconds ad Set	
LCD Display It	ems: ☑ Relative Humidity (%) 🔽 Degrees F	ahrenheit (°F) 🔽 D	legrees Celsius	(°C) 🗌 System Time	Read	et
Polling Data		(°C)			(°F)	(%)	4
		ICP DAS	Co., Ltd. Tech	nical Docu	ument		



Classification	ISaGRAF Englis						
Author	Spike Huang	Page	6/7				
ISaGRAI File Edit O Image: Continued of Conti	F - FAQ157:[untitle ptions Help Me S Q Value TRUE 2512	ed] - Li	Con	1	1	1	[
Fahrenheit Humidity <end list="" of=""></end>	7879 5034						

1.3.2. Description of Demo Program "FAQ157.pia"

Project Architecture:

This project contains an LD program (Main).

The setting of DL-100T485 in this demo:

- 1. Module address: 1
- 2. Checksum: Disable

ISaGRAF Variables:

Name	Туре	Attributes	Description
DL100_Q	Boolean	Internal	DL-100T485 communication status
Humidity	Integer	Internal	Relative humidity, unit is 0.01
Centigrade	Integer	Internal	Degree Celsius, unit is 0.01
Fahrenheit	Integer	Internal	Degree Fahrenheit, unit is 0.01

I/O Connection:



Classificatio	n	ISaGRAF English FAQ-157								
Author		Spike Huang Version 1.0.0 Date Nov.2012 Page 7/								
Main Procedure Description:										
E	ISaGRAF - FAQ157:MAIN - Quick LD Program									
I	<u>F</u> ile <u>E</u> dit <u>T</u> ools <u>Options</u> <u>H</u> elp									
	6	È 🖆 📈 Щ 🕅 🛠 🛏 🔏 🔥 171 🔍 Q, Q, ☲ ⅲ 🚝								
	F2: HEI	F3: HHE F4: 📴 F5:	-O• F6: OH	F7: 180 F8: 10 F9	:					
(*	* *)	F	en 1- ADF	DL100 Q_ RRHHur TEMP_CCer <u>TEMP_F_</u> Fah	nidity Itigrade renheit	DL100_q		1		

ICP DAS Co., Ltd. Technical Document