



DATA LOGGER UNIT STORAGE



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MODEL: VTPL-DT - 640

ACCOMMODATES A WIDE VARIETY OF MEASUREMENTS

Multifunction analog input ports

Contains a highly isolated input mechanism which ensures that signals are not corrupted by noise from other channels. The GL840/240's inputs are suitable for combined measurements from voltage, temperature, humidity, logic, and pulse signals. 4 channels of Logic/Pulse inputs Supports 4 - channel logic or pulse signal inputs. Pulse mode allows cumulative, instant, or rotation al values for industrial measurement capability with speed and flow.

4 CHANNELS OF LOGIC / PULSE INPUTS

Supports4 channel logic or pulse signal inputs. Pulse mode allows cumulative, instant, or rotational values for industrial measurement capability with speed and flow

MAXIMUM SAMPLING INTERVAL OF UP TO 10MS

Provides faster sampling rates for voltage measurements. You are able to achieve up to10ms sampling speed when limiting the number of channel sin use

SUPPORTS LARGE-SIZE SD MEMORY CARD FOR RELIABLE LONG TERM MEASUREMENT

New DT series carries two SD memory cards lots for storage device. The SDHC type SD memory card is supported up to 32GB. 4GB SD memory card comes as a standard accessory installed in the first slot.

USEFUL FUNCTIONS

- 1. Alarm output function: Based on set conditions for each channels, alarm signals can be placed using the four channel alarm output ports.
- 2. In1put/output cable (B-513option) is required to connect the alarm output ports to External buzzer/light mechanism.
- 3. USB drive mode: USB drive mode function enables data to be transferred to the PC from GL840/GL240by drag & drop feature.
- 4. Navigation function: Simple to use navigation screen allows setting operation for measurement and wireless LAN adapter.
- 5. Ring capture function: The most recent data is saved when the memory is configured in ring memory mode. (Number of capturing data is 1000 to 2000000 points)

VIJAYANTA TECHNOLOGIES PVT. LTD.

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Main unit series specifications			Herm	Analog input specifications Bern Description					
Model number		VTPL-DT-640		Mode	el numbe	er .	VTPL-DT- 800		VTPL-DT- 640
Number of an	alog input channels	20 channels in standard configuration, 10 channels Expandable up to 200 channels		Input	method		All channels isolated balanced input , Scans channels for sampling.		for sampling.
		Up to 10 terminals (standard config: 1) N/A		Measurement Vol			Screw terminal (MS) 20, 50, 100, 200, 50, mV, 1, 2, 5, 10, 20, 50, 100 V, and 1-5V FS, (Full Scale)		
Number of an	g input terminal	Multi-input type, Withstand-voltage type	N/A	range		Thermocouple	Type: K, J, E, T, R, S, B,		Type: K, J, E, T, R, S, E
ort for digital		1 port for the sensor/terminal of the L100		range		Thermocoupie	Range: 100, 500, 2000 9		N. W. WBes-260
External input		Trigger or Sampling (1 channel), Logic/Pi	des (d alexandri)			RTD (Flesistance	Type: Pt100, JPt100 (JIS		N/A
outout	Quout	Alarm (4 channels)	ann (4 Criatrinia)			Temperature Detector	Range: 100, 500, 2000 °	Cana Priodo (EC/31)	
Sampling interval		10 ms to 1 hour (10ms to 50ms; voltage only), External signal				Humidity	0 to 100 % RH - using the humidity sensor for		5300
	waveform display	1 sec. to 24 hour /division		Filter		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ing average in selected num	
Trigger, Autom	Trigger action	Start or stop capturing data by the trigge	Y	Mean	suremen	accuracy			
function	Repeat action	Off, On (auto rearmed)			Model n	umber	Input terminal B-564	VTPL-DT- 640	
	Trigger source	Start: Off, Measured signal, Alarm, Exter			Voltage		a 0.1% of F.S. (Full Scale	+ 0.1% of E.S. (Full Scale	
		Stop: Off, Measured signal, Alarm, External, Clock, Week or Time		- [Tempera	ture (Thermocouple)			
	Condition Setting	Combination: OR or AND			Type	Measurement	Measurement accuracy	Measurement accuracy	
		Analog signal: Rising (High), Falling (Low				range			
		Logic signal: Pattern (combination of each			R/S	0 < TS < 100 °C	± 5.2 °C	± 5.2 °C	
		Pulse (number of count): Rising (High), F				100 < T8 ≤ 300 °C		± 3.0 °C	
	Alarm output	Outputs a signal when alarm condition of	ocurs in the input signal			Pt 300 < TS ≤ 1600 °C	a (0.05% of rdg. + 2.0 °C) ± (0.05% of rdg. + 2.0 °C	
Pulse input	Rotation count	Counts the number of pulses per sampli			_	S: 300 < TS < 1760 °C	a (0.05% of rdg. + 2.0 ℃) + (0.05% of rdg. + 2.0 °C	
function	(RPM) mode	(rotations per minute), Number of pulses	for one rotation can be set to		8	400 ≤ T8 ≤ 600 °C	± 3.6 °C	± 3.6 °C	
		50, 500, 5000, 50k, 500k, 5M, 50M, 500l	M rpm/1:8. (rpm./Full Scale)			600 < TS = 1820 °C	= (0.05% of rdg. + 2.0 °C) ± (0.05% of rdg. + 2.0 °C	
	Accumulating	Accumulates the number of pulses from	the start of measurement		K	-200 c TS c -100 °C	a (0.05% of rdg. + 2.0 °C) ± (0.05% of rdg. + 2.0 °C	
	count mode	50, 500, 5000, 50k, 500k, 5M, 50M, 500l			_	-100 × T8 ≤ 1370 °C	± (0.06% of rdg. + 1.0 °C	± (0.05% of rdg. + 1.0 °C	
	Instant count	Counts the number of pulses per sampli 50, 500, 5000, 50k, 500k, 5M, 50M, 500	ng interval		E		± (0.05% of rdg. + 2.0 °C		
Calculation					-	-100 < TS < 800 °C	a (U.05% of rdg. + 1.0 °C) ± (0.05% of rdg. + 1.0 °C	
		Addition, Subtraction, Multiplication, and			10		± (0.1% of rdg. + 1.5 °C)		
unction	Statistical	Select two calculations from Average, Pr			1	-100 < TS = 400 °C	= (0.1% of rdg. + 0.5 °C)	x (0.1% of rdg. + 0.5 °C)	
Search functi- nterface to P		Search for analog signal levels, values of it Ethernet, USB 2.0 (Hi-speed)	gic or pulse or alarm point in captured data USB 2.0 0-6-speed)		la la	-200 c TS c -100 °C -100 c TS ≤ 100 °C		± 2.7 °C ± 1.7 °C	
otertace to P	Mertin	SD memory card (Support SDHC, up to	USH 2.0 (H-s-speed)			-100 < 18 ≤ 100 °C	= 1.7 °C = (0.05% of rdg. + 1.0 °C	± 1.7 °C ± 10.05% of rdg. + 1.0 °C	
Storage	Saved contents	Captured data, Setting conditions, Screen			N	100 < 18 = 1100 °C	a (0.1% of rdg. + 2.0 °C)	± (0.1% of rdg. + 2.0 °C)	
sewce Sapturing mo		Mode: Normal, Ring, Relay	in copy		IN.	0 ≤ TS ≤ 1300 °C	a (0.1% of rag. + 2.0 °C)	± (0.1% of rdg. + 1.0 °C)	
Japtunng mc	oge	Ring: Saves most recent data (Number of a			w	0 ≤ T8 ≤ 1300 °C	± (0.1% of rdg. + 1.0 °C) ± (0.1% of rdg. + 1.6 °C)	± (0.1% of rdg. + 1.5 °C)	
					PLJ.C	0 5 10 5 2000 °C	± (0.1% or reg. + 1.8 °C)	+ 0.5 °C	
		Relay: Saves data to multiple files without losing data until dada capturing is stopped. Replays captured data that was saved. Replays captured data that was saved.				dure (RTD)	a 0.5 %	1 × 0.5 °C	
vopray Gara (r	TOBIC OF CAY TOTAL	in the VTPL-DT- 800	in the VTPL-DT- 640				Measurement accuracy	Measurement accuracy	
Continu (Cont	neering unit function	Measured value can be converted to spe			19100	Measurement range	weascrement accoracy	Measurement accuracy	
ocang jurgeneering and rancoon		Analog voltage: Converts using four reference points (gain, offset)		PHO		-200 < TS < 100 °C	+1050	N/A	
		· Temperature: Converts using two refere	ence points (offset)			100 × T8 ≤ 500 °C			
		- Pulse count: Converts using two refere				500 < TS = 850 °C		1	
Action during data capture		Displaying past data (using dual display mode (Current + Past data))			JD110		+ 0.6 °C	-	
		Hot-swapping the SD memory card				100 × T8 ≤ 500 °C		1	
		- Saving data in between cursors			F9100	2 -200 = TS = 100 °C	= 0.8 °C	-	
Display (LCD)	Simo	7-inch polor TET 000/GA: 800 v 480 does	4.3-inch color TFT (WQVGA: 480 x 272 dots)			100 < TS < 500 °C		1	
	Language	English, French, German, Chinese, Korean, Russian, Spanish, Japanese			converte	Sigma-Delta type, 1	6 bits reflective resolution	1/40000 of the measuring fu	II range)
	Information	Waveform in Y-T with digital values, Waveform only, Digital value, Digital value			mum	Between (+) / (-)	20 mV to 2 V range: 60 V	p-p. 20 mV to 1 V range: 60 V	p-p.
		and statistics values			input voltage		5 V to 100 V range: 110 '	/p-p 2 V to 100 V range: 110 V	p-p
Operating en	vironment	0 to 45 °C, 5 to 85 % RH (non condensed)			- 1000	Channels (I-) / (-I)	60 Vp-p 60 Vp-p		
		(When operating with batterypack 0 to 40 °C, charging battery 15 to 35 °C)				Channel / GND	60 Vp-p	60 Vp-p	
Power source	a AC adapter	100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)			voltage	Detween channels	350 Vp-p (1 minute) 350 Vp-p (1 minute) 350 Vp-p (1 minute) 350 Vp-p (1 minute)		
	DC power	LS to 24 V DC (DC drive cable (option B-S14) is required)		(withstand)		Channel / GND			
	Battery pack	Mountable battery pack (battery pack (o	ption B-517): 7.2V DC, 2900mAhi	Opti	ions ar	d Accessories			
Power consu	mption	Max. 35 VA	Max. 36 VA	Herm			Model number De	scription	
External dimensions		Approx. 240 x 166 x 52.5 Approx. 188 x 117 x 42			termine	(Multi-input)	PL-564 20	20ch input terminal, multi-input type, for VTPL-DT-800	
W x D x H in mm. Excluding projections)					Input terminal (Withstand v.		B-565 20	20ch input terminal, withstand-high-voltage type, VTPL	
						input terminal	B-566 Ba	se unit for input terminal (B-6	64 or 565), for VTPL-DT-
				Conn	section c	able for extension	B-567-05 Ca	ole to connect VTPL-DT- 600	and B-598, 50 om long
Software a	pecifications for	PC			terminal		B-567-20 Ca	Cable to connect VTPL-DT-800 and B-566, 2 m long	
Item		Description		Datte	ry pack		B-569 Re	Rechargeable Lithium-ion battery (7.2 V, 2900mAh)	
Model name		APS		Brack	et for Dily	rail (main body)	B-570 Brz	cket for DIN rail (main body), fo	CVTPL-DT- 800 Build-to-or
Supported OS		Windows 8.1, 8, 7, Vista (32/64-bit editio			Bracket for DIN rail (extension termin		B-540 Bra	Bracket for DIN rail (terminal base), for VTPL-DT- 800 Build-to-	
Supported device		VTPL-DT- 500 (USB, Ethernet), VTPL-DT-			Input/Output cable for GL series			2 m long (no clip on end of cable)	
Functions		Control the GL series, Real-time data capture, Replay data, and Data format conversion			Irive cab		B-514 2 n	2 m long (no clip on end of cable)	
Supported units & channels		Up to 1000 channels total, Up to 4 groups (number of units is limited by model)		Humidity sensor			8-530 Wi	With 3 m long signal cable (with power plug)	
Settings cont	rol	Input condition, Capturing condition, Trigger/Alarm condition, Report, etc.			Shunt resistor			250 ohms (it converts the signal to the "1-5V" from the "4-20m	
Capturing data	s Saved to PC	Saves captured data in real time (in GBD binary or CSV format)			AC power adapter Temp & Humidity sensor			Input: 100 to 240 V AC, Output: 24 V DC	
Saved to unit		Saves to the SD memory card (in GBD binary or CSV format)						Temperature and humidity measurement, for VTPL-DT- 80	
Displayed information		Y-T waveform, Digital values, Report, X-Y graph (specified period of data,		Burninance & UV sensor			8-LXUV Illu	Illuminance and UV measurement, cable 20cm long.	
File operation		data reply only), Two display for the current and past, and Statistical calculation		Carbon Dioxide (CO2) sensor Acceleration & Temp sensor			S-CO2 CC	CO2 measurement, cable 20cm long, for VTPL-DT-800	
		Converting data format to CSV from GBD binary, merge multiple data files in the						Acceleration and temp, measurement, cable 20cm long.	
		time axis or as an additional channel				put terminal	S-4TSR Ten	Temp measurement (using a Thermistor), cable 20cm long.	
Warning function		Send e-mail to the specified address when the alarms occur		Thermistor sensor (Normal type)			S-100AT-4P Ten	Temperature sensor (-40 to 105 °C), 3m long, 4pcs/set, for S-4T5	
		Maximum, Minimum, and Average during data capturing		Thermistor sensor (Ultrathin type)			9-103JT-4P Ten	Temperature sensor (-40 to 120 °C), 3m long, 4pos/set, forS-4TSi Current measurement busing a CT), cable 20cm long.	
Report function	on	Creates the daily or monthly report autor	natically			nsor adapter			
						nsor (50A)	S-ACSOA Cu	rent sensor (CT) 50A, cable	20cm long, for 5-DPA-AC
						nsor (100A)		Current sensor (CT) 100A, cable 20cm long, for S-DPA-	
						nsor (200A)	8-AC200A Cu 5-4VT Vot	Current sensor (CT) 200A, cable 20cm long, for 8-DPA- Voltage or Temp (using a thermocouple), cable 20cm long.	
						ip input terminal			
									pley, cable 20cm long,
\sqrt{V}	1 5 7		1 YA VI	Mode		sion cable	S-EXC Ext	ension cable for the sensor't nnect up to 2 sensor module	erminal, 1.5m long,

NOTE: There may be any change in specification due to continuous R & D without notice.

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