

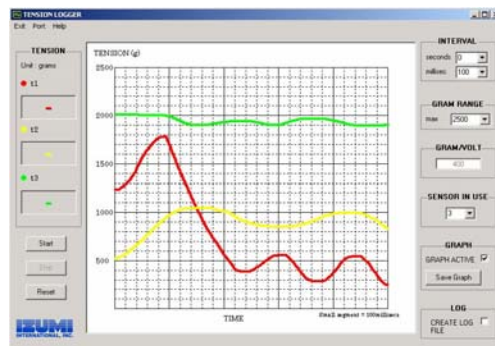
DTH -TAQ

Tension Monitoring Units

- ☆ The DTH-TAQ units enable tension monitoring and logging on any PC.
- ☆ Choose from a wide variety of tension ranges, roller widths, and data transmission methods.
- ☆ Any DTH sensor can be used with any TAQ module.
- ☆ Different DTH units can be purchased for use with the same TAQ module.
- ☆ Units are ready to use. Software for monitoring and logging are included.



(Example of DTH + TAQ5000 shown above)



(Example of tension monitoring screen)

[1] DTH Tension Monitoring Sensors

* Low Cost, High Accuracy

Each unit is equipped with a micro-chip to correct any deviations between units, thus providing a low cost means of accurate tension measurement. The units have an high accuracy of +/- 2% to 4% F.S.

* Pulley Type, 1 Piece Construction

The unit is of one piece construction, and it can be mounted and put to use with no need to adjust or calibrate.

* Maintenance Free

The unit has a high overload rating, and also has no need for adjustment, making it an ideal choice for production line tension monitoring. There is no initial adjustment at start-up.

[1] DTH Tension Monitoring Sensors (CONTINUED)

DTHA Standard range Sensors

Type	Range N (grams)	Roller Width (mm)
DTHA2100	0.5 (50)	2.5
DTHA3100	1 (100)	3.4
DTHA3110	1 (100)	12
DTHA4100	2 (200)	3.4
DTHA4110	2 (200)	12
DTHA5100	5 (500)	4
DTHA5120	5 (500)	22
DTHA5140	5 (500)	42
DTHA6100	10 (1000)	4
DTHA6120	10 (1000)	22
DTHA6140	10 (1000)	42
DTHA7100	20 (2000)	4
DTHA7120	20 (2000)	22
DTHA7140	20 (2000)	42



(DTHA6140 shown above)



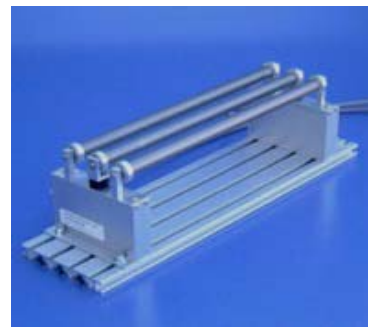
(DTHA6100 shown above)

DTHL High Tension Range Sensors

Type	Range N (grams)	Roller Width (mm)
DTLA2100	50 (5000)	22
DTLA3100	100 (10000)	22
DTLA4100	200 (20000)	22

DTHW-A Type Wide Web Sensors

Type	Range N (grams)	Roller Width (mm)
DTHWA5120	10 (1000)	200
DTHWA5140	10 (1000)	400
DTHWA5160	10 (1000)	600
DTHWA6120	20 (2000)	200
DTHWA6140	20 (2000)	400
DTHWA6160	20 (2000)	600
DTHWA7120	50 (5000)	200
DTHWA7140	50 (5000)	400
DTHWA7160	50 (5000)	600



(DTHWA5140 shown above)

(*) Please contact Izumi with ranges, roller widths not listed above.

(**) Please contact Izumi for dimensions or CAD files on any of the above.

[2] TAQ Data Transmission Modules

Type	Data Acquisition Format
TAQ 3000	Digital Display Only
TAQ 4000S	RS-232 To PC, Direct Connect
TAQ 4000U	USB to PC, Direct Connect
TAQ 4000E	RJ-45 Ethernet to PC, Direct Connect
TAQ 5000	Wi-Fi to PC

Details on Specifications

TAQ Common Specifications					
Model	TAQ3000	TAQ4000S	TAQ4000U	TAQ4000E	TAQ5000
Analog Input Type:	Single-ended	Single-ended	Differential	Single-ended	Single-ended
Analog Resolution:	12-Bit				
Maximum Sampling Rate/s:	240				
Relative Accuracy:	0.25% of FSR				
Measurement Range:	+/- 10V		+/- 5V		+/- 10V
Overvoltage Protection:	+/- 20V peak				
Display:	LED, 3 1/2 Digits	NA			
PC Connector:	None	DB-9F	USB	RJ-45	Wireless
Communication Type:	None	RS-232	USB 2.0	Ethernet 802.3	802.11b
Maximum Cable Length:	NA	15m	5m	100m	NA
Power Input Voltage:	+5VDC (+/- 0.2Volts)				
Power Input Current:	200ma	50ma	150ma	700ma	1000ma
Power Connector:	5.5mm long by 2.1mm dia. barrel jack, center positive				
Operating Temperature:	0 to 55C (32 - 131F)				
Storage Temperature:	-40 to 65C (-40 - 149F)				
Humidity:	10% to 90% R.H. non-condensing				
Enclosure Height:	46mm (1-13/16")				
Enclosure Width:	81mm (3-3/16")				
Enclosure Length:	165mm (6.5")				
Enclosure Weight:	380g (0.84lb)				
Enclosure Class:	NEMA 1, (IP65, NEMA 12 with optional enclosure kits/gaskets)				

TAQ5000 Wi-Fi Radio Specifications	
Ethernet Standard:	802.11b
Frequency:	2.4 GHz
Data Rate:	11, 5.5, 2, 1 Mbps with automatic fallback
Modulation:	CCK (11/5 Mps), DQPSK (2 Mbps), DBSK (1 Mbps)
Transmit Power:	16 dBm Typical
Maximum Range:	Indoor - 100 to 200 ft., Outdoor - 1000 ft. (with provided 1/4 wave antenna)
Receiver Sensitivity:	-82 dBm @ 11 Mbps -87 dBm @ 5.5 Mbps -89 dBm @ 2 Mbps -92 dBm @ 1 Mbps
Channels:	11 (USA/Canada), 13 (Europ), 14 (Japan)
Approvals:	CE, FCC Class A (with antenna provided)

TAQ4000E / TAQ5000 Network Specifications	
Setup Method:	Uses any web browser via built-in web server
IP Address Assignment:	Static IP, DHCP, Auto IP
Security:	Admin configuration password protected WEP, WPA, PEAP, PSK, Strong SSL, DES, 3DES, AES
Protocols:	TCP, UDP, DHCP, SNMP, SSL/TLS, TELNET, RLOGIN, RFC 2217, LPD, HTTP/HTTPS, SMTP, ICMP, IGMP, ARP
Web Access Modes:	Ad-Hoc, Infrastructure
Data Access Method:	PC Virtual COM port, RealPort software provided

TAQ AC to DC Power Supply	
Type:	Standard US Receptacle mount
Input power:	100 - 240VAC
Input Frequency:	50 - 60 Hz
Output Power:	Regulated 5VDC
Output Current:	1000ma
Output Plug:	2.1mm dia. barrel plug, center positive
Power Cord Length:	1828mm (72")

Supplied Software	
WinDaq Aquisition:	Strip chart display/recorder program for the data supplied via the virtual COM port.
WinDaq Waveform Browser:	Strip chart display program for review and analysis of recorded data files.



Izumi International, Inc.

1 Pelham Davis Circle, Greenville, SC 29615 USA
 Tel: 864-288-8001 Fax: 864-288-7272
 E-mail: us-sales@izumiinternational.com
 Web: www.izumiinternational.com