

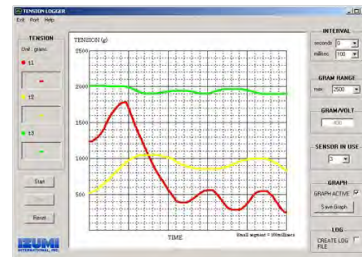
# DTH-TAQ Tension Monitoring Systems

## Features

- Enables tension monitoring and logging via PC.
- Wide variety of tension ranges, roller widths, data transmission methods.
- Combine any DTH sensor unit with any TAQ transmission unit
- Software for monitoring and logging are included.
- These DTH units can also be used with the CTF controllers for tension control.



Example of wireless unit



Example of tension monitor

## DTH Tension Monitoring Sensors

### DTH Standard Range Sensors

Type	Range N (grams)	Roller Width (mm)
DTH2200	0.5 (50)	2.5
DTH3210	1 (100)	12
DTH4210	2 (200)	12
DTH5210	5 (500)	12
DTH5240	5 (500)	42
DTH6210	10 (1000)	12
DTH6240	10 (1000)	42
DTH7210	20 (2000)	12
DTH7240	20 (2000)	42
DTH8210	30 (3000)	12
DTH8240	30 (3000)	42

### DTL High Range Sensors

Type	Range N (grams)	Roller Width (mm)
DTL2220	50 (5000)	22
DTL2260	50 (5000)	62
DTL3220	100 (10000)	22
DTL3260	100 (10000)	62
DTL4220	200 (20000)	22
DTL4260	200 (20000)	62

Other specifications for DTH and DTL tension sensors

- Linearity: under +/- 1.0% R.O. at 23degC +/- 3degC with exception Of 0.5N, 1N, 2N models which are +/- 2.0% R.O.
- Max physical load: x2 max range
- Fiber speed: 0-500 m/min max
- See individual specification sheets for further details.
- Please contact Izumi International, Inc. for special requirements



### DTW Wide Web Sensors

Type	Range N (grams)	Roller Width (mm)
DTW5220	10 (1000)	210
DTW5240	10 (1000)	410
DTW5260	10 (1000)	610
DTW6220	20 (2000)	210
DTW6240	20 (2000)	410
DTW6260	20 (2000)	610
DTW7220	50 (5000)	210
DTW7240	50 (5000)	410
DTW7260	50 (5000)	610

Other specifications for DTW

- Linearity: under +/- 2.0% R.O. at 23degC +/- 3degC
- Max physical load: x2 max range
- Fiber speed: 0-250 m/min max
- See individual specification sheets for further details.
- Please contact Izumi International, Inc. for special requirements



## 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

### Detailed 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.