

# Comparison between Tension Controller Systems

	Description	EGT-28AX	EGT-2420	PLC
1	Load Cell Monitoring & Diagnostics	Yes	Yes	No
2	Earth Leakage on 4-20mA IS Load Cell	Yes	Yes	No
3	Direct Tension Display	Yes	Yes	No
4	Number of Running Tension Operation sets	Multiple	1	Multiple
5	Directly adjustable Levels	Yes	Yes	No
6	Interactive Touch Screen	Yes	No	Possible
7	Graphical Display of Tension	Yes	No	Possible
8	Measurement of Trolley Wheel Friction	Yes	No	No
9	Measurement of Pulley/Sheave Wheel friction	Yes	No	No
10	Measurement of Brake Performance	Yes	No	No
11	Forward/Reverse Winch Motor Control	Yes	Yes	Yes
12	AC Variable Winch Motor Control with PID	Yes	No	Possible
13	Integrated Data Logging (SDHC Card) of all events for 2 years	Yes	No	No
14	Smart Card Storage of all parameters	Yes	No	No
15	Time Stamp RTC (Accurate to 90 seconds per year)	Yes	No	?
16	6-Zone Dead Band with graded proportional response	Yes	No	No
17	Long Term NV Memory (21 years)	Yes	No	No
18	Encoder Feedback of Winch Motor	Yes	No	Yes
19	Full interactive Diagnostics of Controller	Yes	No	No
20	Mapping of Tension to Winch Load	Yes	No	No
21	Safe Operating Zone	Yes	No	No
22	Modbus Ethernet Communications	Yes	No	Yes
23	Comprehensive complete & Tested Software	Yes	Yes	No
24	Set-Up Wizard for Conveyor, Winch and Load Cell parameters	Yes	No	No
25	Comprehensive complete & Tested Software	Yes	No	No
26	Interactive Conveyor Acceleration Control	Yes	No	No
27	Continuous Display of Take-Up Operation behaviour	Yes	No	No
28	Multiple Security Levels on Menu Accessing	Yes	No	Possible
29	Selectable Interface Voltage (24VDC, 110VAC,220VAC)	Yes	Yes	No
30	Integral Forced Contact E-Stop Relay	Yes	No	No
31	Isolated, Active, Programmable, 4-20mA, Outputs	2	No	No
32	Analogue +/-10VDC Programmable Outputs	2	No	No
33	Motor Thermistor Programmable Input	Yes	No	No
34	Belt Speed Pulse Input	Yes	No	No
35	Winch Motor and Brake Current measurement inputs	Yes	No	No
36	RS485 Data Feedback from Winch Motor Control	Yes	No	No
37	Rapid Parameter via Hand Wheel (optional)	Yes	No	No
38	Controller Response time	1mS	20mS	>500mS
39	VFD Winch Load Current Loop Input	Yes	No	No