



Fastening Control System for QE & QM Series Electric Tools
Système d'Asservissement pour les Séries Electriques QE et QM
Schraubersteuerungen für Schrauber der QE/QM- Serie
Systema de Gestión de Par para Llaves Eléctricas QE y QM
Sistemi di Gestione della Coppia per Chiavi Elettriche QE e QM

Insight software feature matrix

	Insight IC1G	Insight IC2G	Insight IC1M	Insight IC1D	Via ICS Connect	Via ICS Network	Via ICS MultiSync	Via ICS Enterprise
Software Programming								
Max Number of Configs	32	32	256	256	Unlimited	Unlimited	Unlimited	Unlimited
Max Number of Steps	128 Total	128 Total	32 per config.	32 per config	1	32 per config	32 per config	32 per config
Prog. Params. Editable	●	●		●	●	●	●	●
Gang count	●	●		●	●	●	●	●
Autoincrement	●	●		●	●	●	●	●
Quick Setup	●	●		●	●	●	●	●
Advanced Setup	●	●		●	●	●	●	●
Config Name	●	●		Display only	●	●	●	●
CW/CCW Tightening	●	●		●	●	●	●	●
Tubenut Operation	●	●		●	●	●	●	●
Adjustable Acceleration	●	●				●	●	●
Optional EOR for each Step	●	●				●	●	●
Synchronizing Spindles		●					●	●
Copy protection					●	●	●	●
Data Archiving								
No. of stored EOR Records	5000	5000	200	1000	Unlimited (manual)	Unlimited (manual)	Unlimited (auto.)	Unlimited (auto.)
Databases data can be transferred to							ODBC	ODBC
Backup data to server							●	●
Powerhead								
Powerhead Operation		Limited					●	●
Max No. of Spindles in Powerhead		2					40	40
Max No. of Groups		2					8	8
Fault Backout		●					●	●
Fault Backout Options		None, spindle, group, powerhead					None, spindle, group, powerhead	None, spindle, group, powerhead
Final Fault Backout		●					●	●
Final Fault Backout Options		None, spindle, group, powerhead					None, spindle, group, powerhead	None, spindle, group, powerhead
Synchronization Method		Via CANBUS					Via CANBUS	Via CANBUS
Software General								
Date/Time Set	●	●		●	●	●	●	●
System Name	●	●		●	●	●	●	●
Display Software versions	●	●		●	●	●	●	●
Language Selection	●	●		●	Only ICS Language	Only ICS Language	Only ICS Language	Only ICS Language
NTP Function			●	●	●	●	●	●
E.O.R. Onscreen filter				●	●	●	●	●
E.O.R. viewable onscreen	●	●	Primary value only	●	●	●	●	●
Load New Software via Ethernet	●	●	●	●	●	●	●	●
Tool Programming								
TR Adjust	●	●		●	●	●	●	●
ASC Adjust	●	●		●	●	●	●	●
TR and ASC Reset	●	●		●	●	●	●	●
Auto Calibration Function	●	●			X with ETA	X with ETA direct connect only		
Torque Units Selection	●	●		●	●	●	●	●
Start Mode Selection	●	●		●	●	●	●	●
Tool Operation Selection	●	●		●	●	●	●	●
Special Fn Switch Programming	●	●		●	●	●	●	●
Configuration Mode Selection	●	●		●	●	●	●	●
PM Alarms	●	●		●	●	●	●	●
View Memory Chip Data	●	●			●	●	●	●
Passwords								
Number of Passwords	4	4	0	1	Unlimited	Unlimited	Unlimited	Unlimited
Auto Timer lockout	●	●		●				
Adjustable Lockout Timer	●	●		●				
Statistics								
Sample and Population Stats	●	●		●	●	●	●	●
Stats Values Calculated	Cp,Cpk,Mean,SD, Capability, CAM, Max value, Min Value % No. Rejects, % No Pass, No.Rej Hi, No. Rej Lo, Mean Shift, Range, No.for sigma			Cp,Cpk,Mean,SD, Capability, CAM, Max value, Min value % No. Rejects, % No Pass,No.Rej Hi, No. Rej Lo, Mean Shift, Range, No.for sigma			Cp,Cpk,Mean,SD, Capability, CAM, Max value, Min Value % No. Rejects, % No Pass, No.Rej Hi, No. Rej Lo,Mean Shift, Range, No.for sigma, Target	
Stats Alarms	●	●		●			●	●
Stats Alarms Output	●	●	●	●				
Max Sample Stats Size	5000	5000	200	1000	1000	1000	1000	1000
Powerhead Stats				●			●	●
Mean Range Charts						●	●	●
Histograms						●	●	●
Pareto chart						●	●	●
Stats E-mail alarms							●	●
Stats can be calculated from user defined data						●	●	●
Tightening Curves								
Curve Types	Torque vs Angle, Torque vs Time, Current vs Time	Torque vs Angle, Torque vs Time, Current vs Time					Torque vs Angle, Torque vs Time, Current vs Time, Current vs Angle	
Max No. of Curves Stored on Cont.	5	5	Last Reject Last Cycle	Last Reject Last Cycle				
Display Curves On Screen	●	●				●	●	●
Print Tightening Curves	●	●				●	●	●
Print Tightening Curve Data	●	●				●	●	●

	Insight IC1G	Insight IC2G	Insight IC1M	Insight IC1D	Via ICS Connect	Via ICS Network	Via ICS MultiSync	Via ICS Enterprise
Full View	●	●				●	●	●
Zoom Function	●	●				●	●	●
No. of curves that can be overlaid	5	5				1	10	10
Archive curves						●	●	●
Parameter values shown on curve	●	●				●	●	●
Tightening Strategies								
Torque Control	●	●		●	●	●	●	●
Torque Control with Y. Override	●	●			●	●	●	●
Angle Control	●	●		●	●	●	●	●
Angle Control with Y. Override	●	●			●	●	●	●
Yield Control	●	●			●	●	●	●
Prevailing Torque	●	●			●	●	●	●
Drag Torque	●	●			●	●	●	●
Backout	●	●			●	●	●	●
Fault Backout	●	●			●	●	●	●
Final Fault Backout	●	●			●	●	●	●
Retorque	●	●			●	●	●	●
Wait	●	●			●	●	●	●
Jog	●	●			●	●	●	●
Bypass	●	●			●	●	●	●
Communications								
Serial E.O.R. Data out	●	●		●	●	●	●	●
Serial Custom E.O.R. Data	●	●			●	●	●	●
Host Data Out	●	●		●	●	●	●	●
PFCS	●	●			●	●	●	●
Barcode Passive	●	●			●	●	●	●
Barcode Active	●	●			●	●	●	●
Barcode setup onscreen	●	●			●	●	●	●
Field Bus setup onscreen	●	●			●	●	●	●
Ethernet EOR Setup	●	●			●	●	●	●
Ethernet EOR	●	●			●	●	●	●
Ethernet Programming					●	●	●	●
Diagnostics								
Error Codes			●					
Text Errors	●	●		●	●	●	●	●
System Test	●	●		●	●	●	●	●
Store System Test Results	●	●			●	●	●	●
View Input Statuses	●	●		●	●	●	●	●
Set Output Statuses	●	●		●	●	Only if connected 1 to 1	●	●
View Outputs					●	●	●	●
Assignable inputs					●	●	●	●
Assignable Outputs	Limited	Limited			●	●	●	●
Event Log	●	●			●	●	●	●
View Event Log	●	●			●	●	●	●
Tool Test	●	●		●	●	Only if connected 1 to 1	●	●
Lamp Test	●	●		●	●	Only if connected 1 to 1	●	●
Help								
HelpOn Screen Help Menu	●	●			●	●	●	●
Wizard Text	●	●		●				
Printed Reports								
No. of Reports	7	7	0	0	5	6	9	11
Report Types	Cycle Log, Stats, Parameter Dump, Tightening Curve, Diagnostics, Event log, Auto Cal				Cycle Log, Stats, Parameter Dump, Diagnostics, Event log +Tightening Curve, + Tightening, Curve Histogram, Pareto, Mean/Range + Tight. Curve, Histogram, Pareto, Mean/Range VIN, Custom			
Parallel Output	●	●			●	●	●	●
Export to file					●	●	●	●
Hardware								
Screen Size	25 cm (10.4 in) diag		14mm (9/16 in) high x 5 character	9.6 cm (3.8 in) diag				
Screen Type	VGA Color LCD	VGA Color LCD	Red LED	1/4 VGA Color LCD	XVGA or better	XVGA or better	XVGA or better	XVGA or better
Keypad	●	●		●	●	●	●	●
Keypad Type	33 key Membrane			25 key Membrane	PC Keyboard	PC Keyboard	PC Keyboard	PC Keyboard
Status lights	●	●		On Screen				
Power On indication	●	●		●				
GFI	●	●		●				
Mounting Design	Wall	Wall	Wall or Cabinet Mounting plate	Wall or Cabinet Mounting plate				
Field Bus	X (optional)	X (optional)	X (optional)	X (optional)				
No. of I/O	Base 8, Max 24	Base 8, Max 24	Base 8, Max 24	Base 8, Max 24				
Type of I/O	Opto	Opto	Opto	Opto				
Serial Port	X (4)	X (4)	X (1)	X (1)				
Ethernet	●	●	●	●				
Max number of Spindles	1	2	1	1	1	500	100	500
Method of identifying physical location			Rotary dial switch	Rotary dial switch				
CCT Breaker switch	●	●	●	●				
Dimensions								
Width	475mm (18.7 in)	475mm (18.7 in)	177 mm (7.0 in)	177 mm (7.0 in)				
Height	470 mm (18.5 in)	470 mm (18.5 in)	322 mm (12.6 in)	322 mm (12.6 in)				
Depth	275 mm (10.8 in)	275 mm (10.8 in)	229 mm (9.0 in)	229 mm (9.0 in)				
Weight	27 kg (60 lb)	32 kg (70 lb)	5.6 kg (12.4 lb)	5.6 kg (12.4 lb)				

General Applications	Insight IC1G	Handheld or fixtured.
	Insight IC2G	Handheld, fixtured or limited powerhead.
	Insight IC1M	Handheld, fixtured or powerhead.
	Insight IC1D	Handheld, fixtured or powerhead.
	Via ICS Connect	Basic programming for IC1D or IC1M. One-to-one connection only.
	Via ICS Network	Advanced programming of non powerhead systems. Either one-to-one or up to 500 on a network.
	Via ICS MultiSync	Advanced programming of powerhead systems of up to 40 spindles each.
	Via ICS Enterprise	Advanced programming and data archiving of powerhead and non-powerhead systems on a network. Up to 500 spindles total.