

Communication Formats

Customer Target HW	Controls	Product	Mode	Data Provided							Customer Preparation	Physical Interface	Communication Medium	
				Weights	Stats	Graphics	Setup Parameters	Counts/totals	CW Status	Production Status				Product Change
PC or any other HW where a serial string can be received and deciphered	MM, CM	Weight Data Interface	Uni-Directional (Send Only)	◆							Write code to receive, interpret and store data ¹	10 position Phoenix Terminal Strip	RS232 or RS422 ⁰ Ethernet TCP/IP™	
	E S	Weight Data Interface		◆									DB9 Connector XRTC/RJ45	RS232 or RS422 ^{0,4} Ethernet TCP/IP™
	MM	Reports		◆	◆		◆				Write code to receive, interpret and store data ¹	10 position Phoenix Terminal Strip	RS232 or RS422 ⁰ Ethernet TCP/IP™	
	CM			◆	◆	◆	◆					36 P Centronix	Parallel	
	E S	Statistics		◆	◆			◆				36 P Centronix	Parallel	
	X-Series	Weight Data Interface		◆									DB9	RS232 or RS422 ⁰
		Reports		◆	◆		◆					Write code to receive, interpret and store data, assign IP address for the Checkweigher	XRTC/RJ45	Ethernet TCP/IP™
Same as above, but can also be PC with dedicated EzWay SW and HW	MM	EZWay™	Bi-Directional (Send & Receive)	◆			◆		◆		Write code to receive, interpret and store data, or add communications board to existing EZWay PC. ¹	10 position Terminal Strip	RS422 only ⁰	
	CM			◆									RS232 or RS422 ⁰	
AB PLC, SLC, or Contrologix	MM	AB RIO™		◆	◆		◆	◆	◆	◆	Write code to manipulate data in the PLC. Sample code is provided in the manual. 6J-01K-0006 (MM) 6J-01K-0013 & 14 (CM)	2 Position Terminal Strip	Allen Bradley "Blue Hose"	
	CM			◆	◆		◆	◆	◆	◆				
PC or any other HW that accepts serial string	E	GARECO		◆	◆ ²		◆	◆ ²	◆	◆	Write code to receive, interpret and store data	DB9	RS232 or RS422 ^{0,4}	
	S			◆								DB9		
PC Network	CM, S, E, X-Series	FreeWeigh™ & FreeWeigh.Net™		Project consulting with METTLER-TOLEDO MTASC Group										
	S	Login Server™	Secures date/time of change, nature of change, who performed the change, and machine where change was made							Provide a network connection for the CW. SW installed on customer's PC		RJ45	Ethernet TCP/IP™	
	E ³ S	React™	◆	◆ ²	◆	◆	◆ ²			◆	Provide a network connection for the CW. SW installed on customer's PC	RJ45	Ethernet TCP/IP™	
	CM	RCI	◆	◆		◆	◆	◆	◆	◆	Write code to manipulate data at the PC level. A sample Visual Basic program is provided 6J-01K-0124 & 0137	RJ45	Ethernet TCP/IP	
PLC w/Ethernet IP, Modbus TCP, ControlNet, or DeviceNet	MM	Fieldbus Gateway Module	◆			◆				Write PLC program to use data from pre-assigned I/O locations in the PLC (6J-01K-XXXX)	4 Pos Term. Strip	Devicenet™		
	CM		◆			◆			BNC Connector		Controlnet™			
	X-series	Fieldbus daughter card	◆			◆					RJ45	Ethernet IP		
	Safeline Metal Detectors	Explorer™	Similar functionality to "ReAct™ and LogIn-Server™" for SL metal detectors contact Safeline for assistance							Provide a network connection for the MD. SW installed on customer's PC		RJ45	TCP/IP	
Service	X-series	Back-up	◆	◆		◆	◆			None, requires a USB Memory Stick	USB Port	USB (USB1.1)		

"Data Provided" Legend Descriptions:

Weights – each individual weight as seen by the Checkweigher. S and E controls can be "every weight", or "accepts only", and include units. MM & CM allow patterns (e.g., every third, first X of every Y, as a sample). MM and CM provide counts and totals by zone, and interval and cumulative values.

Stats – average and standard deviation for a production grouping (by time, package count)

Graphics – x-bar/R charts, histograms for a production grouping

Setup Parameters – Zone settings, target weights, tare weights, zone status

Counts and Totals – number of packages per zone, total weights per zone, number of accepts and rejects by zone.

Checkweigher Status – MM and CM include Good Rezero, Needs rezero status, Checkweigher ID (format varies by control), Checkweigher configuration. E and S are Checkweigher ID on;y

Production Status – "on" or "off" status of all alarms in the system. Allows customer to monitor machine status (e.g., ready to run, machine running, photoeye status, consecutive rejects, etc.) See AB RIO and RCI publications for detailed list.

Product setups – Ability to download setup parameters to a remote system, modify them remotely, then upload to the Checkweigher. Feedback parameters such as upper and lower control limits, scale factors for adjustment, target weigh, sample size are included when feedback is purchased.

NOTES:

⁰ – Can also be Ethernet TCP/IP with converter and RJ45 interface + \$.

¹ - Applications information is provided in the Micromate (**6J-01K-0005**) or Checkmate (**6J-01K-0012**) manual.

² - Requires purchase of statistics option for inclusion with this feature

³ - React for E control is article (product) upload-download only, i.e., no stats or graphics

⁴ - Also via Profibus to Siemens PLC

⁵ - One RS232 Serial Interface is standard (Comm 1) additional serial outputs (RS232, RS422 or RS485) are available as an option (Comm 2) with purchase of serial interface (daughter) card.