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| **APPLICATION DATA SHEET: E/M CONVEYOR SCALE WITH 5 ROLL TROUGHED IDLERS** |

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|  |
| **Quote Reference:** |       |  | **Tag:** |       |  |
| **Customer:** |       |  | **End-User:** |       |  |
| **Fax No:** |       |  | **Date:** |       |  |
|  |
| In order to evaluate the application *and* to ensure that any scale subsequently purchased will be compatible with the conveyor frame (stringer), certain minimum data is required. Please enter the data required on the sketch and questionnaire below.(**\*** indicates applicable to Electro Mechanical Belt Scale models only).A hand sketch of the conveyor side view with distances to;- tangent points, inclines, between idlers etc., should be drawn on the allocated space **or preferably** attach a drawing (ACAD .dwg or .pdf format)of the conveyor. |
| **MEASURED DIMENSIONS** |
| **OFF-SCALE FOOT BOLTING PITCH DETAILS (See Note 1 below):**

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**Notes:** **1. The idler foot bolting pitch sketch above is only to be completed when the idlers are not supplied by**  **Process Automation.** **2. The On-Scale idler foot bolting pitch Interface to the PA scale is 250mm (Dim “M”).****3. Refer to QD-258 for 3 Roll Idlers** | **DIM**  | **MEASURED DIM** |
|  | A = |       | mm |
|  | B = |       | mm |
|  | C = |       | mm |
|  | D = |       | mm |
|  | E = |       | mm |
|  | F = |       | mm |
|  | G = |       | mm |
|  | H = |       | mm |
|  | I = |       | mm |
|  | J = |       | mm |
|  | K = |       | deg |
|  | L = |       | deg |
|  | M= |       | mm |
|  | N= |       | mm |
|  | O= |       | mm |
|  |  |  |  |
| **LOADING CONDITIONS** |  |
| Product conveyed |       |  |  |  |  |
| More than one different type of material conveyed? |  |
|  | [ ]  Yes [ ]  No | (Mark Choice) |
| Loading continuous? ($\*$- see note below) |  |
|  | [ ]  Yes [ ]  No | (Mark Choice) |
| Loading uniform? ($\*$- see note below) |  |
|  | [ ]  Yes [ ]  No | (Mark Choice) |
| $\*$ - If “no” to any of the two questions above, please specify maximum instantaneous belt loading (kg/m) |       |  |
| Severe vibration? |  |
|  | [ ]  Yes [ ]  No | (Mark Choice) |
|  | **Maximum** | **Normal** | **Minimum** |
| Calibration Capacity (t/h) |       |  |       |  |       |
| Belt Loading (kg/m) |       |  |       |  |       |
| Material bulk density (kg/m3) |       |  |       |  |       |
| Material surcharge angle (degrees) |       |  |       |  |       |
| Particle size (mm) |       |  |       |  |       |
| Moisture content (%) |       |  |       |  |       |
| Conveyor belt speed (metres/second) |       |  |       |  |       |
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|  **CONVEYOR CONDITIONS** Page 2 of 5 |
| Conveyor incline angle (degrees) at point of scale installation |  |  |       |  |  |
| Conveyor (normal) idler pitch (mm) |  |  |       |  |  |
| Scale idler pitch (mm) – (preferred: 1000mm) |  |  |       |  |  |
| Conveyor fed by |  |  |       |  |  |
|  |
| Conveyor take-up type: **\*[ ]**  [ ]  | [ ]  Gravity | [ ]  Screw | [ ]  Hydraulic | [ ]  None |
| On which side of the conveyor is the walkway, when viewed in the direction of belt travel?  | [ ]  LHS  | [ ]  RHS  | (Mark Choice) |  |
| Distance from centre of scale to tail pulley |       | m |
| Distance from centre of scale to head pulley |       | m |
| Distance from end of infeed skirt-boards to 1st weigh idler |       | m |
| Expansion joints at installation point to be welded? | [ ]  Yes [ ]  No | (Mark Choice) |
| Is there a curve in the belt? | [ ]  Yes [ ]  No | (Mark Choice) |
| *(If yes, dimensioned/scaled drawing is mandatory*) |  |
| Are there any trippers on the conveyor belt? | [ ]  Yes [ ]  No | (Mark Choice) |
| Are there multiple feed points? | [ ]  Yes [ ]  No | (Mark Choice) |
| Is it a reversible belt? | [ ]  Yes [ ]  No | (Mark Choice) |
| Is the scale exposed to wind? | [ ]  Yes [ ]  No | (Mark Choice) |
| What is the belt thickness (or class & number of plies)? |       | mm |  |
| Is the belt steel cored? | [ ]  Yes [ ]  No | (Mark Choice) |
| Calibration Method: | [ ]  Theoretical [ ]  Test Weights\* [ ]  Belt Cut [ ]  Bulk Material Test |
| In-accuracy allowable: |       | % |  |
| Enclosure type | [ ]  Blind [ ]  Local Display [ ]  Double Door |
| Power supply available | [ ]  220V AC [ ]  110V AC [ ]  50 Hz [ ]  60 Hz | (Mark Choice) |
| Environmental temperature (°C) |       | (Maximum) |       | (Normal) |       | (Minimum) |
| Enclosure protection class | [ ]  IP54 (std) [ ]  IP55 [ ]  IP  |       |  | (Mark Choice) |
|  |  |  |  |  |
| Hazardous location? | [ ]  Yes [ ]  No |       | (Classification) |
| Is welding on stringers permissible for installation purposes? | [ ]  Yes [ ]  No |  |
|  |
|  |
| **GENERAL OPTIONS** |
|  |
| Calibration test weight required?**\*** | [ ]  Yes [ ]  No | (Mark Choice) |
| Manual test weight lifting system required?**\*** | [ ]  Yes [ ]  No | (Mark Choice) |
| Automated test weight lifting system required?**\*** | [ ]  Yes [ ]  No | (Mark Choice) |
| Certification “Legal for Trade” required?**\*** | Consult Factory |  |
| Paint requirements? | [ ]  PA Proprietary (Blue) [ ]  Galvanized [ ]  Other (as per attached) [ ]  None  |  |
| Constant voltage transformer required? | [ ]  Yes [ ]  No | (Mark Choice) |
|  |
| **APPLICABLE ONLY WITH SCALE UPGRADE** |
| G-Dimension of torque transmitter: |       | mm |
| Existing Scale Mounting Centers: |       | mm |
| Previous SO Number: |       |  |
| Scale duty version: Standard Duty (50mm) | [ ]  Yes [ ]  No | (Mark Choice) |
| Scale duty version: Heavy Duty (76mm) | [ ]  Yes [ ]  No | (Mark Choice) |
|  |
| **SPECIAL REQUIREMENTS** |
|  |
|  |       |  |
|  |       |  |
|  |       |  |
|  |       |  |
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| Application Data Sheet: E/M Conveyor Scale with 5 Roll Troughed Idlers | Page 3 of 5 |

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| **SKETCH OF CONVEYOR** (Side View) |
| **or alternatively** attach a drawing (ACAD .dwg or .pdf format)of the conveyor(Paying specific attention to indicate the position of the curves with respect to the proposed installation position.)***Kindly note that this information is critical to the correct placement of the scale in the conveyor and any omissions could affect the scale performance*** |
|       |
|  |
| **CONFIRMATION OF TECHNICAL DETAILS AS SET OUT ABOVE** (requirement of ISO 9000/9001) |
|  |
| Print Name: |       |  | Designation: |       |  |
| Signature: |       |  | Date: |       |  |
|  |
|  |
| **FOR OFFICE USE** |
|  |
| Scale model purchased |       |  |
| Weigh duty idlers purchased:**\*** | [ ]  Yes [ ]  No |  |       | Qty |
| Dimension "G" selected:**\*** |       | mm |
| Load cell capacity selected:**\*** |       | kg |
| Scale idler pitch selected:**\*** |       | mm |
| Additional requirements: |       |  |
|  |       |  |
|  |       |  |
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| Application Data Sheet: E/M Conveyor Scale with 5 Roll Troughed Idlers | Page 4 of 5 |

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| **INPUT AND OUTPUT REQUIREMENTS** |
| **Digital Outputs (50V DC max. @0.5 Amperes)** |
| Totaliser pulses | Supplied as Standard |  |
| Load low alarm | [ ]  Yes [ ]  No |  |
| Load high alarm | [ ]  Yes [ ]  No |  |
| Load general alarm (high or low) | [ ]  Yes [ ]  No |  |
| Rate low alarm | [ ]  Yes [ ]  No |  |
| Rate high alarm | [ ]  Yes [ ]  No |  |
| Rate general alarm (high or low) | [ ]  Yes [ ]  No |  |
| Speed low alarm | [ ]  Yes [ ]  No |  |
| Speed high alarm | [ ]  Yes [ ]  No |  |
| Speed general alarm (high or low) | [ ]  Yes [ ]  No |  |
| Controller deviation alarm | [ ]  Yes [ ]  No |  |
| Sampler control | [ ]  Yes [ ]  No |  |
| System healthy | [ ]  Yes [ ]  No |  |
| Automated test weight operation (2 x outputs) | [ ]  Yes [ ]  No |  |
| Control set point source (local or remote) | [ ]  Yes [ ]  No |  |
| Batch control (1 x output) | [ ]  Yes [ ]  No |  |
| ***Note****: The* ***Digital Outputs*** *are all de-energised on power-up, when they are not allocated to a variable. If allocated to a variable they will assume an appropriate condition to match the status of the variable. The digital outputs are volt free contacts rated at max 50V DC @ 0,5 Amperes.* |
|  |
| **Digital Inputs (24V DC)** |
| Speed sensor replacement | [ ]  Yes [ ]  No |  |
| Automated test weight (2 x position feedback inputs) | [ ]  Yes [ ]  No |  |
| \*Automated test weight (2 x control inputs) | [ ]  Yes [ ]  No |  |
| Variable speed drive “Run” feed back | [ ]  Yes [ ]  No |  |
| \*Batch control (3 x inputs & 1 x output) | [ ]  Yes [ ]  No |  |
| ***Note****:* ***Digital Inputs*** *are optically isolated & require a nominal 24V DC (10-40V DC) @ 10 mA each. The Digital Inputs marked with an asterisk (\*) require a momentary (approx. 500 ms) application of the input. All other Digital Inputs are effective during their application only.* |
|  |
| **Analogue Inputs (4-20mA)** |
| Remote set-point | [ ]  Yes [ ]  No |  |
| Moisture | [ ]  Yes [ ]  No |  |
| Variable conveyor inclination angle (stacker applications, etc.) | [ ]  Yes [ ]  No |  |
|  |  |  |
| **Analogue Output (Optically isolated)** |  |  |
| Feed rate | Supplied as standard |  |
| Belt load | [ ]  Yes [ ]  No |  |
| Belt speed | [ ]  Yes [ ]  No |  |
| Set-point control | [ ]  Yes [ ]  No |  |
| ***Note****: The optically isolated* ***Analogue Outputs*** *are set to zero (mA) on power-up, when they are not allocated to a variable. If allocated to a variable they will assume an appropriate condition to match the status of the variable.* |
|  |
| **.** |
| **Serial Communications** (Select one only) **Page 5 of 5** |
| Profibus® DP | [ ]  Yes [ ]  No |  |
| Dual redundant Profibus® DP (Slave redundancy) | [ ]  Yes [ ]  No |  |
| Profibus® PA | [ ]  Yes [ ]  No |  |
| PROFINET-IO® | [ ]  Yes [ ]  No |  |
| DeviceNet® | [ ]  Yes [ ]  No |  |
| ControlNet® | [ ]  Yes [ ]  No |  |
| EtherNetIP® | [ ]  Yes [ ]  No |  |
| Modbus® Plus | [ ]  Yes [ ]  No |  |
| Modbus® RTU | [ ]  Yes [ ]  No |  |
| Modbus® TCP/IP (Ethernet) | [ ]  Yes [ ]  No |  |
|  |