1. SEE HARDY PROCESS SOLUTIONS WEB SITE FOR ADDITIONAL MOUNTING AND WIRING INFORMATION.

NOTES: UNLESS OTHERWISE SPECIFIED

7. IF THE HI 6510 INSTRUMENT IS USED IN A MANNER NOT SPECIFIED BY HARDY PROCESS SOLUTIONS,
THE PROTECTION PROVIDED BY THE INSTRUMENT MAY BE IMPAIRED.

6. SEE SHEET 8 FOR PANEL MOUNT WALL SYSTEM SUMMING CARD OPTIONS.

5. SEE SHEETS 6 AND 7 FOR PANEL MOUNT WALL SYSTEM ENCLOSURE OPTION.

4. SEE SHEET 3 FOR PANEL MOUNTING OPTIONS.

3. SEE SHEETS 4 AND 5 FOR USER INTERFACE CONNECTIONS.

2. SEE SHEET 2 FOR FRONT PANEL DISPLAY OPTION DIMENSIONS.

1. SEE HARDY PROCESS SOLUTIONS WEB SITE FOR ADDITIONAL MOUNTING AND WIRING INFORMATION.
HI 6100 SERIES FRONT PANEL DISPLAY OPTION

FRONT PANEL DISPLAY TERMINAL BLOCK

NOTES:
1. INPUT VOLTAGE RANGE:
   12 VDC, 0.16 AMP, 1.92 WATT.
2. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON
   DISPLAY TERMINATIONS.
3. WIRE SIZE: 20 AWG MAXIMUM / 26 AWG MINIMUM.
   WIRE TEMPERATURE RATING TO BE 90° C.
   TERMINAL TYPE: SPRING CAGE CONTACT.
   INSERTION/RELEASE TOOL: 2.0MM X 4MM WIDE SCREW DRIVER BLADE.
4. SEE SHEET 5 FOR HI 6510 UNIT WIRE DISPLAY TERMINATIONS.
4. MAXIMUM CABLE LENGTH: 100 FEET [30.48 METERS]

DIMENSIONS = IN [MM]

I/I DIAGRAM,
HI 6510 WEIGHT PROCESSOR

D 21316  0584-0083  F
PANEL MOUNT ARRANGEMENT - HI 6510 WEIGHT WITH DISPLAY OPTION

When ordered, display option is supplied with the following parts:

- Display Unit (1)
- Gasket (1)
- 4.06±.12 [101.6±3.0] Long Display Cable Assembly (1)
- Threaded Rod (4)
- Flat Washer (4)
- Hex Nut (4)
- Standoff (4)

ALTERNATIVE PANEL MOUNT ARRANGEMENT

Uses same parts as supplied with HI 6100 Series Display Option. Optional mounting brackets are included in hardware kit Part Number 0551-0553-04-0. 

Hardware kit Part Number 0551-0553-04-0 is to be ordered separately.

DIMENSIONS = IN [MM]
WEIGH SCALE INPUT TERMINATIONS

NOTES:

1. IF CONDUIT IS USED, DO NOT RUN LOAD CELL CABLE PARALLEL TO, OR IN SAME CONDUIT WITH, POWER WIRING, RELAY CABLE OR OTHER HIGH ENERGY CABLES.

2. FACTORY INSTALLED JUMPERS TO REMAIN IN PLACE ONLY FOR FOUR WIRE NON C2 LOAD CELL CONNECTION. JUMPERS TO BE REMOVED FOR SIX WIRE NON C2 OR EIGHT WIRE C2 LOAD CELL CONNECTIONS. EXCITATION AND SENSE WIRES TO BE CONNECTED TOGETHER IN JUNCTION BOX.


4. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON LOAD CELL CONNECTIONS. USER'S GUIDE IS LOCATED ON HARDY PROCESS SOLUTIONS WEB SITE.

5. TERMINAL BLOCK WIRE SIZE RANGE: 22 AWG MIN / 16 AWG MAX.
   WIRE TEMPERATURE RATING TO BE 90° C.
   WIRE TIGHTENING TORQUE: 2 LB-IN MINIMUM / 4 LB-IN MAXIMUM.

6. FOR CLARITY, ONLY ONE LOAD SENSOR CONNECTION IS SHOWN.

TERMINALS FOR C2 SECOND GENERATION CALIBRATION SYSTEM.
LEAVE THESE TERMINALS UNCONNECTED IF C2 IS NOT USED.
POWER INPUT TERMINATIONS

NOTES:
1. INPUT VOLTAGE RANGE [24 VDC NOMINAL]: 12–24 VDC, 0.15–0.33 AMP, 7 WATTS MAXIMUM.
2. TERMINAL BLOCK WIRE SIZE RANGE: WIRE TEMPERATURE RATING TO BE 90°C.
   12 AWG MAXIMUM / 22 AWG MINIMUM.
   WIRE TIGHTENING TORQUE: 4.4 LBS-IN MINIMUM / 5.3 LBS-IN MAXIMUM.

ETHERNET TERMINATION

NOTES:
1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON ETHERNET TERMINATIONS.
2. CONNECTOR TYPE: RJ-45, 8 PIN

DISPLAY TERMINATIONS

NOTES:
1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON DISPLAY TERMINATIONS.
2. WIRE SIZE: 20 AWG MAXIMUM / 26 AWG MINIMUM.
   WIRE TEMPERATURE RATING TO BE 90°C.
   TERMINAL TYPE: SPRING CAGE CONTACT.
   INSERTION/RELEASE TOOL: 2.0MM X .4MM WIDE SCREW DRIVER BLADE.
3. SEE SHEET 2 FOR FRONT PANEL DISPLAY WIRE TERMINATIONS.
4. MAXIMUM CABLE LENGTH: 100 FEET [30.48 METERS]

4–20mA ANALOG OUTPUT TERMINATIONS

NOTES:
1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON ANALOG OUTPUT TERMINATIONS.
2. DO NOT BUNDLE ANALOG OUTPUT WIRING WITH POWER WIRING,
   RELAY CABLE OR ANY OTHER HIGH ENERGY CABLES.
3. TERMINAL BLOCK WIRE SIZE RANGE: 22 AWG MIN / 16 AWG MAX.
   WIRE TEMPERATURE RATING TO BE 90°C.
   WIRE TIGHTENING TORQUE: 2 LBS-IN MINIMUM / 4 LBS-IN MAXIMUM.

SERIAL PORT TERMINATIONS

NOTES:
1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON SERIAL TERMINATIONS.
2. DO NOT BUNDLE SERIAL WIRING WITH POWER WIRING,
   RELAY CABLE OR ANY OTHER HIGH ENERGY CABLES.
3. TERMINAL BLOCK WIRE SIZE RANGE: 22 AWG MIN / 16 AWG MAX.
   WIRE TEMPERATURE RATING TO BE 90°C.
   WIRE TIGHTENING TORQUE: 2 LBS-IN MINIMUM / 4 LBS-IN MAXIMUM.

USB TERMINATION

NOTES:
1. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON USB TERMINATIONS.
2. DO NOT BUNDLE USB WIRING WITH POWER WIRING,
   RELAY CABLE OR ANY OTHER HIGH ENERGY CABLES.
3. USB PROTOCOL AND CONNECTOR TYPE: USB 2.0, FULL SPEED; TYPE A.

DIMENSIONS = IN [MM]

HARDY
PROCESS SOLUTIONS

I/I DIAGRAM,
HI 6510 WEIGHT PROCESSOR

D 21316 0584-0083 F
OPTION CODES IT1 & IT2 – IT SUMMING CARD
OPTION CODES JB1 & JB2 – LOAD CELL SUMMING CARD

NOTES:
1. DO NOT RUN LOAD CELL CABLES PARALLEL TO, OR IN THE SAME CONDUIT WITH POWER WIRING, RELAY CABLE OR OTHER HIGH ENERGY CABLES.
2. REQUIRED LOAD CELL CABLE FOR C2 SECOND GENERATION CALIBRATION SYSTEM: HARDY PROCESS SOLUTIONS PART NUMBER 6020-0001-0.
3. SEE USER'S GUIDE FOR ADDITIONAL INFORMATION ON IT SUMMING/LOAD CELL SUMMING CARD CONNECTIONS.
4. WIRE SIZE: 12 AWG MAXIMUM / 22 AWG MINIMUM.
   - WIRE TIGHTENING TORQUE: 2 LB-IN MINIMUM / 4 LB-IN MAXIMUM.

TO THE HI 6510 
(WIRED BY HARDY PROCESS SOLUTIONS)

LP1 TRIM POT
R1
TB1
+EXC/SEN
-EXC/-SEN
SHIELD
+C2
-C2
+SIG
-SIG

LP2 TRIM POT
R2
TB2
+EXC
SHIELD
+C1
+SIG

LP3 TRIM POT
R3
TB3
+EXC
SHIELD
+C1
+SIG

LP4 TRIM POT
R4
TB4
+EXC
SHIELD
+C1
+SIG

LP1 – LOAD CELL 1
LP2 – LOAD CELL 2
LP3 – LOAD CELL 3
LP4 – LOAD CELL 4

1/1 DIAGRAM,
HI 6510 WEIGHT PROCESSOR

IT SUMMING/LOAD CELL SUMMING CARD WIRING DIAGRAM