

Australian Government

Department of Industry, Science and Resources



36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/14B/21

Issued by the Chief Metrologist under Regulation 60 of the National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

CBH Model CBH-DTAW1 Discontinuous Totalising Automatic Weighing Instrument

submitted by Co-Operative Bulk Handling Limited 30 Delhi Street West Perth WA 6005

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 107, *Discontinuous Totalising Automatic Weighing Instruments (Totalising Hopper Weighers)*, dated July 2004.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

Rev	Reason/Details	Date
0	Pattern and variants 1 and 3 provisionally approved – interim	30/07/14
	certificate issued (variant 3 was variant 2 at that time)	
1	Pattern and variants 1 to 3 approved – certificate issued.	25/09/14
2	Variant 4 approved – certificate issued	5/10/17
3	Variant 2 amended (load cells and indictors replaced) –	10/08/20
	certificate issued	
4	Variant 5 approved – certificate issued	24/10/22

DOCUMENT HISTORY

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/14B/21' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI P6/14B/21' may be re-marked 'NMI 6/14B/21' but only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates of Approval No S1/0/A or No S1/0B.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to the instrument shall be within the limits specified herein and in any approval documentation for the components where they are approved separately.

This approval shall NOT be used in conjunction with General Certificate of Approval No 6B/0.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999.*

Darryl Hines Manager Policy and Regulatory Services

1. Description of Pattern

provisionally approved on 30/07/14 approved on 25/09/14

A CBH model CBH-DTAW1 Class 0.2 discontinuous totalising automatic weighing (DTAW) instrument (Figures 1 and 2 – Note: The Figures may relate to variants rather than the pattern) having a weigh hopper of 12 000 kg maximum capacity.

The instrument is installed in a permanently fixed location.

Note: This approval has been granted with reference to document NMI R 107, *Discontinuous Totalising Automatic Weighing Instruments (Totalising Hopper Weighers)*, dated July 2004. The following description is intended to introduce terms used in this Certificate and Technical Schedule which may be additional to those in that document but which are consistent with the terminology in the document.

The system aims to provide a *bulk load delivery* using a particular automatic *delivery sequence* (the term 'delivery' may also be taken to refer to 'receipt').

This sequence involves the totalisation of the results of a number of *discrete load deliveries* or *weighing cycles*, each of which involves the division of the bulk product into *discrete loads*, according to a *target discrete load* the mass of which is then determined by weighing to give the *discrete load delivered* following which the product is discharged to the bulk output. Note that the *target discrete load* may be achieved by stopping or slowing the bulk product delivery prior to the *target discrete load* value being reached according to *discrete load target shutoff adjustments* (such as inflight adjustments or slow flow pre-sets).

Each *discrete load delivered* is totalised (at any time this may be termed the *cumulative totalisation*).

The target discrete load is generally a pre-selected value that is the same for most of the discrete load deliveries (this may be termed the pre-selected target discrete load). However for the final one or two deliveries in the bulk load delivery the target discrete load may differ (for example to avoid excessively large or small discrete loads). In addition, arrangements for stopping or slowing the bulk product delivery prior to the target discrete load value being reached may vary for the final discrete deliveries in the delivery sequence according to target totalised load shutoff adjustments (such as inflight adjustments or slow flow pre-sets).

The *totalised bulk load delivered* may be intended to be close to a requested amount (*target totalised load*) in which case adjustments and pre-sets as described above may be used to achieve this as closely as possible.

Alternatively the *totalised bulk load delivered* may be the quantity measured without a particular target totalised load.

The *totalised bulk load delivered* is the cumulative totalisation (sum of all discrete loads delivered), in the complete *bulk load delivery*. The transaction is based on the *totalised bulk load delivered* (not the *target totalised load*).

1.1 Details

The CBH-DTAW1 instrument is a Class 0.2 discontinuous totalising automatic weighing instrument having a weigh hopper with a maximum capacity of 12 000 kg.

The instrument is approved for use with a minimum totalised load (Σ_{min}) of not less than 50 000 kg and a totalisation scale interval of 5 kg. The instrument is set to have a *target discrete load* of from 9 000 to 10 000 kg.

The CBH-DTAW1 instrument permanently records the *totalised bulk load delivered* and the net value of each discrete load delivered. This information can be sent to a printer if required.

Note: The discrete load values are NOT approved for trade use. The totalised bulk load delivered (a total of the discrete load delivered values) is the value approved for trade use.

1.2 Weighing System

The pattern (Figures 1 to 6 – Note: The Figures may relate to variants rather than the pattern) comprises components as described below.

- (*) For items marked (*) below, 'Compatible and Equivalent' equipment may be used. 'Compatible and Equivalent' refers to equipment of the same or better specifications, requiring no changes to software for satisfactory operation of the complete system including all checking facilities.
- (a) A weigh bin hopper with out-feed gate, using four Avery Weigh-Tronix Ltd model 8708 load cells of 7000 kg maximum capacity (the load cells are also described in the documentation of approval NMI S176B, and are mounted in accordance with that documentation). The load cells are located symmetrically around the weigh bin hopper.
- (b) A Rinstrum model R420 digital indicator for the weighing system (the digital indicator is also described in the documentation of approval NMI S463).
- (c) A Schneider Electric model Modicon 140CPU65260 (*) programmable logic controller (PLC).
- (e) Matrixgroup BULKmetrix (version 5.4.1 software) which runs on the programmable logic controller mentioned in (c) above, and utilises the weight readings from the digital indicator to determine the discrete load values and totalises them to determine the *totalised bulk load delivered*, and stores the weighing data.
- (d) An operator interface computer by which the operator can control the system, and access the weighing data.
 - Note: The system may also be controlled and weighing data accessed by other (networked) computers.
- (f) A printer (to print transaction data), or equivalent record in electronic form.
- (g) Actuators and associated position sensors to control the product in-feed and the out-feed gates for the weigh bin.

The system is designed to ensure retention of metrological information in the event of a power failure, including transition to an emergency power supply if necessary for this purpose.

1.3 Indicator and PLC Control

The BULKmetrix software running on the PLC, along with weight data from the digital indicator, controls the weighing sequence, including checking of various aspects of the system operation (blocked chutes, gates open or closed as appropriate) and filling of the weigh-bin by starting and stopping of product flow (opening and closing of in-feed Page 4 of 17

and out-feed gates) according to messages from the plant operator's control system.

The BULKmetrix software running on the PLC, uses inputs from the system to determine when no further product delivery is required (e.g. when the in-feed bin is empty, the out-feed bin is full, or sufficient product has been supplied). In some cases these inputs may be provided by the plant operator's control system (e.g. to indicate that sufficient product has been supplied).

Weight data from the digital indicator is continually provided to the BULKmetrix software which uses this information to determine the discrete load values, totalise them to determine the *totalised bulk load delivered*, and store this weight data.

Where sufficient product has been supplied, the BULKmetrix software finalises the delivery and totalises the discrete load deliveries to form the *total bulk load delivered* value.

The weight data, together with information regarding the weighing sequence status, is also provided continually to the operator interface computer(s). The operator interface computer(s) can retrieve weight data for printing if required.

Note: The operator interface may combine information relating to a number of CBH-DTAW1 instruments as shown in Figure 4.

1.4 Operation

An overview of the sequence of operation of the system is shown in Figure 6.

The system is considered to be a discontinuous totalising automatic weighing instrument as it follows a predetermined program of automatic processes characteristic of the instrument. The product is weighed by individual discrete loads, which are totalised to determine the bulk product weighed.

(a) Initially the target discrete load ('batch target') is set in the PLC (generally this will be a fixed value and will not vary between deliveries). The target discrete load may be programmed to different values for different grain types due to the volume of the grain.

The system remains in an idle state until a start signal is received and valid shipping information is set by the operator. When the system receives a start signal from the plant operator an initial check of the system is carried out. (gates are closed, air pressure OK, grain in upper garner, etc).

- (b) The system will commence filling the weigh hopper via the fast and slow feed gates until the target discrete load value is reached. The status of the Start Signal from the plant operator's control system is also monitored as absence of this signal will indicate that product is not available for measurement, in which case the set-point cannot be reached, and the delivery will be finalised.
- (c) Once the weigh bin is full (or no further product is available) and the feed gates are closed, the system waits for a stable weight signal, and records the gross weight reading for the loaded weigh bin.
- (d) The system checks the status of alarms and inputs and then discharges the product into the lower garner. When the weigh bin is empty, the discharge gates are closed and when the weight reading is stable, the system records the empty ('tare') weight reading for the empty bin.
- (e) The gross weight value for the loaded bin at (c), minus the tare weight value for the empty bin at (d) is the discrete load delivered from the weigh bin. This can then be added to values of previous cycles to provide a cumulative totalised

load.

- (f) If the Start Signal is present indicating that further product is required, and there are no faults or alarms present the system will repeat the sequence from (b) to (e).
- (g) If the quantity of product required to reach the target totalised load ('shipping target') is less than three times the target discrete load, the system will recalculate the value for each remaining discrete load to avoid attempting to weigh less than the minimum capacity in one cycle. On the final cycle, a small amount of product will be fed into the weigher using the jog function to enable the shipping target totalised load to be reached as closely as possible.
- (h) The gross, tare and net weight for each weighing cycle are permanently recorded along with a running total of the product weighed. Various reports are available to print.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

The digital indicator shall be sealed as described in the documentation of its approval (see 1.2(b) above).

1.7 Markings and Notices

(a) Instruments carry the following markings, grouped together in a clearly visible place on the instrument, either on a descriptive plate fixed near the indicating device or on the indicating device itself:

Manufacturer's mark, or name written in full	Co-Operative Bulk Handling Limited
Indication of accuracy class	0.2
Pattern approval mark for the instrument	6/14B/21
Model number	CBH-DTAW1
Serial number of the instrument	
Maximum capacity	<i>Max</i> = 12000 kg *
Minimum capacity	<i>Min</i> = 5000 kg *
Minimum totalised load	$\Sigma_{min} = 50000 \text{ kg}^{*}$
Totalisation scale interval	$d_t = 5 \text{ kg}$
Material to be measured	

- (*) These markings shall also be shown near the display of the result if they are not already located there.
- (b) Instruments carry a notice visible to the operator stating TARGET DISCRETE LOAD SHALL BE 9000 kg to 10000 kg ONLY, or similar wording.

Note: Markings for variants vary according to particular characteristics.

2. Variant 1

provisionally approved on 30/07/14 approved on 25/09/14

The pattern or variants with a number (up to 4) of weigh bin / indicators controlled simultaneously by the one PLC running Bulkmetrix software, and with an operator interface screen controlling and accessing data relating to all weigh bin / indicators.

Each weigh bin / indicator shall be treated as a separate discontinuous totalising automatic weighing instrument for verification purposes, and markings specific to each shall be provided with clear identification of the weigh bin / indicator concerned (e.g. 'Weigher 1', 'Weigher 2' etc.

3. Variant 2

approved on 25/09/14 amended on 10/08/20

The following model CBH-DTAW1 instruments, which are similar to the pattern, but which use alternative indicator and load cell models, have differing numbers of load cells, and differing capacities and parameters.

These instruments are based on modification of earlier instruments to utilise the Schneider Electric PLC and BULKmetrix control equipment. Consequently the load cells and indicators mentioned may not have current NMI supplementary certificates, they may nevertheless be used in these instruments.

a) Location: Kwinana, WA (Weighers 1, 2, 3 & 4) Load cells: A&D LCC11T010-K of Emax = 10000 kg NMI S410 (4 cells used) Rinstrum C520, NMI S719 Indicator: Class 0.2 Max = 15000 kgMin = 5000 kg Σ_{min} = (no less than) 60000 kg $d_t = 5 \text{ kg}$ TARGET DISCRETE LOAD SHALL BE 9500 kg to 12000 kg ONLY b) Location: Albany, WA (Weighers 1 & 2) Load cells: A&D LCC11T010-K of Emax = 10000 kg NMI S410 (4 cells used) Indicator: Rinstrum C520, NMI S719 Class 0.2 Max = 15000 kgMin = 5000 kg Σ_{min} = (no less than) 60000 kg $d_t = 5 \text{ kg}$ TARGET DISCRETE LOAD SHALL BE 8500 kg to 12000 kg ONLY c) Location: Esperance, WA (Weigher 1) Load cells: Flintec model SB5 of Emax = 5000 kg (4 cells used) Indicator: Rinstrum C520, NMI S719 Class 0.2 Max = 10000 kgMin = 5000 kg Σ_{min} = (no less than) 50000 kg $d_t = 5 \text{ kg}$ TARGET DISCRETE LOAD SHALL BE 8000 kg to 9000 kg ONLY

d) Location: Esperance, WA (Weigher 2) Load cells: Flintec model SB5 of Emax = 5000 kg (4 cells used) Indicator: Rinstrum C520, NMI S719 Class 0.2 Max = 12000 kgMin = 5000 kg Σ_{min} = (no less than) 50000 kg $d_t = 5 \text{ kg}$ TARGET DISCRETE LOAD SHALL BE 8000 kg to 10000 kg ONLY e) Location: Geraldton, WA (Weighers 1 & 2) Load cells: Zemic model BM24R of Emax = 5000 kg (4 cells used) Indicator: Rinstrum C520, NMI S719 Class 0.2 Max = 10000 kgMin = 5000 kg Σ_{min} = (no less than) 50000 kg $d_t = 5 \text{ kg}$ TARGET DISCRETE LOAD SHALL BE 8000 kg to 9000 kg ONLY f) Location: Forrestfield, WA (Weigher 4) Load cells: Global Weighing PR6201/53C3 of Emax = 5000 kg NMI S333 (4 cells used) Toledo model Panther, NMI S353 Indicator: Class 0.2 Max = 10000 kgMin = 5000 kg Σ_{min} = (no less than) 50000 kg $d_t = 5 \text{ kg}$ TARGET DISCRETE LOAD SHALL BE 9000 kg ONLY g) Location: Forrestfield, WA (Weighers 1, 2 & 3) Load cells: Sartorius PR6246/32C3 of Emax = 300 kg NMI S350 (3 cells used) Toledo model Panther, NMI S353 Indicator: Class 0.2 Max = 400 kgMin = 200 kg Σ_{min} = (no less than) 2000 kg $d_t = 0.2 \text{ kg}$ TARGET DISCRETE LOAD SHALL BE 300 kg ONLY

4. Variant 3

provisionally approved on 30/07/14 approved on 25/09/14

The pattern or variants as Class 0.5, 1 or 2 discontinuous totalising automatic weighing instruments (DTAWI), otherwise having parameters and characteristics as described for the particular pattern or variant.

5. Variant 4

approved on 5/10/17

Variant 2 using an alternative Rinstrum model C520 digital indicator which is also described in the documentation of approval NMI S719.

The sealing arrangements are described in the documentation of approval NMI S719.

6. Variant 5

approved on 24/10/22

The pattern or variants having the Citect Supervisory Control and Data Acquisition (SCADA) software running on the Server and in lieu of BULKmetrix SCADA software. The Citect SCADA software interfaces with the software running of the PLC.

The system operation is as described for the pattern in clause **1.4 Operation** and remains unchanged. The operator control interface screen and generated report forms are as shown in Figures 7 and 8.

The software version number is designated Citect SCADA Version xx.xx Update yy. Version shall be 8.20 or greater and Update shall be 13 or greater.

The instructions for accessing the software version and numbers are as follows:

- Hit the Windows key on the keyboard.
- Click on the ^ on the system tray.
- Click on the Runtime Manager (Service Mode).
- The software version and numbers are displayed as shown in Figure 9.

TEST PROCEDURE No 6/14B/21

Instruments shall be tested in accordance with any relevant tests specified in the applicable National Instrument Test Procedures for this category of instrument.

Where an applicable National Instrument Test Procedure does not exist, a copy of an appropriate test procedure should be requested from NMI.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.



CBH DTAW1 Totalising Weigh Hopper/Weigh-bin (Kwinana)



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Co-Operative Bulk Handling Model CBH-DTAW1 Weighing Instrument

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System Overview



Schneider 140 CPU 652 60

Schneider Modicon PLC





Co-Operative Bulk Handling Model CBH-DTAW1 System Operator Screen (Typical examples - screens may vary between installations)



KWINANA

11/09/2014 10:27:44 AM

Batch Weigher Tapes

(NOTE: All weight values are shown in tonnes)

Voyage Ship Na	ID: 1234 me: SHIP NAME		Target An 2	nount (20,000	Commodity WHEAT	Grade APW2	Actual A 220	amount 100.030
Seq ID	Date	Weigher	Hold	Batch	n Nett	Batch Total	Cycle Time	Balance
187806	21/08/2014 11:06:42 AM	W1	Hold 5A	1	11.970	11.970	64	21988.060
187806	21/08/2014 11:07:56 AM	W1	Hold 5A	2	11.965	23.935	74	21976.095
187806	21/08/2014 11:09:04 AM	W1	Hold 5A	3	12.000	35.935	68	21964.095
187806	21/08/2014 11·10·32 AM	\\/1	Hold 54	4	11 965	47 900	88	21952 130

.... (part of report deleted - following shows report may spread over many pages, and totalisation sequences)

Batch Weig	her Tapes							3 of 43
187815	21/08/2014 9:19:20 PM	W1	Hold 5A	1	12.015	12.015	63	20488.015
187806	21/08/2014 12:57:44 PM	W1	Hold 5A	126	5.505	1500.000	118	20500.030
187806	21/08/2014 12:55:46 PM	W1	Hold 5A	125	11.890	1494.495	48	20505.535

Batch Weigher Tapes



KWINANA

11/09/2014 10:27:44 AM

Batch Weigher Tapes

(NOTE: All weight values are shown in tonnes)

Seq ID	Date	Weigher	Hold	Batch	Nett	Batch Total	Cycle Time	Balance
187815	21/08/2014 9:20:42 PM	W1	Hold 5A	2	11.945	23.960	82	20476.070
187815	21/08/2014 9:21:45 PM	W1	Hold 5A	3	11.940	35.900	63	20464.130
187815	21/08/2014 9:22:41 PM	\\/1	Hold 5A	4	11.965	47.865	56	20452 165

.... (part of report deleted – following illustrates the report may total results of several weighers)

187831	22/08/2014 11:24:52 AM	W1	Hold 5A	103	11.890	1211.025	53	19145.425
187831	22/08/2014 11:26:48 AM	W1	Hold 5A	104	8.975	1220.000	116	19136.450
				W1 Ac	cum Total:	2863.580		
187808	21/08/2014 1:18:58 PM	W1	Hold 3A	1	11.965	11.965	64	19124.485
187808	21/08/2014 1:19:38 PM	W1	Hold 3A	2	11 915	23.880	40	19112 570

.... (part of report deleted - following illustrates the report may total results of several weighers, and Holds)

00000	22100120114	10:00 7 101	A.A. 			12.000	101.100		11:000
187833	22/08/2014 10:	20:48 AM	W4	Hold 3A	62	11.890	743.620	118	0.000
					W4 Ac	cum Total:	5207.245		
		Hatch Tota	als			We	eigher Tota	ls	
		Target		Actual		Weigher 1	Total:	5613.830	
	Hold 1A	2450	:	2178.700		Weigher 2	Total:	5638.565	
	Hold 2A	6847.2		7023.480		Weigher 3	Total:	5540.390	
	Hold 3A	6890.4		7080.865		Weigher 4	Total:	5207.245	
	Hold 5A	5812.4	4	5716.985			:	22000.030	
		22000	2	2000.030					

Typical Report Printout



Weighing Sequence Flowchart (Overview)

CBHGROUP 🏫 🗢	Main Seq 🗠 🛦 🕰 🎝	5 Vessel Shipping Delay Albany > Mimics	User: Engineer 💄 🔻	2 11:44 AM U Thursday, 4 August 2022
Shipping Weigher 2 Information Vessel 0 Grap D 0 Weigher Total 0.0001 Weigher Total 0.0001 Carrot Nation 7A Status Stopped Mode Auto Exact Step Num ide Grows 0.0001 Nett 0.0001 Tree 0.0001 Tree 0 Batch No. 0	Weigher 1. Information Vesad AD ASTRA Cargo D 0 Weigher Target 0.0001 Weigher Total 0.0001 Current Hold 2.A Status Stopped Mode Ando Eact Sters Num Ide Gross 0.0001 Tare 0.0001 Tare 0.0001 Tare 0.0001 Tare 0.0001 Batch No. 0	Wind Speed Osmith	NO9 NO8 V32 V34 BN02553 0%2 0%3 0%3 W70 0%3 0%3 0%3 0%4 0%4 0%4 0%4	V32 R07 R06 C17 V35 V301 S805555 V500 U S805555 V500 V500 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 U S805555 V500 V500 U S805555 V500
Weigher Parameters W2 W1 Commodity Wheat Wheat W Back Target 9,000 t 9,000 t 9,000 t Stow Preact 2,000 t 2,000 t 9,000 t Stow Preact 0,030 t 0,030 t 0,030 t Avg Factor 0,100 t 0,120 t 0,200 t Stow Preact 0,020 t 0,200 t 3,800 t Stow Fill Start 3,800 t 3,800 t 3,800 t	Cargo Information 0 - Cargo Amount -0.0011 - Target Amount -0.0011 - Target Remaining -0.0011 - Weigher 1 -0.0011 - Weigher 2 -0.0011 - Losded Amount -0.0011 - SL1 Auxiliary - -	555 85 86 86 86 86 86 86 86 86 86 86 86 86 86		
BLW31 SS3 BLW21 SS2 SLW31 STW31 SLW21 STW21 SH3 TSS3 SH2 STS2	BLW11 SS1 SW11 SW11 SW11 TTS11	Luff 21.40°	Luff 21.10 ⁷ Siew 6.55 ² SL1 Current Hold 7A	Engineering

Co-Operative Bulk Handling Model CBH-DTAW1 System Operator Screen (Typical examples - Citect SCADA Software)

FIGURE 6/14B/21-8

AN THE REAL PROPERTY AND A PROPERTY		LBA	NY	-	Voyage	e ID:	Shi	p Name:		Target Amount	Commodity	Grade
Sup	ported by IT Ba	tch Weigh	er Repo	ort	1	1960		PANTA	ZIS L	50,000,000	DARLET	
(NOTE: A	Ill weight values are show	weigher	Hold	Batch	Nett	Gross	Tare	Batch Total	Cycle Time	Balance	Weigher	Totala
ord in	Date	Weigher	noid	Datem	Non	01033	lare	Baten iotai	(secs)	Dalance	weigher	Totals
115961	10/10/21 0:26:25 AM	14/2	24	1	9 000	8 000	0.000	8 000	65525	54001.010	vveigner	Actual
115861	19/10/21 9:20:33 AM	W/2	24	2	8,990	8.990	0.000	17 990	44	54997.070	W1	27,733.260
115861	19/10/21 9:52:06 AM	W2	20	3	8,990	8 990	0.000	26.970	1487	54973 030	W2	27,266.740
115861	19/10/21 9:53:35 AM	W/2	20	4	8 990	8.990	0.000	35.960	89	54964 040	Total	55,000.000
115861	19/10/21 9:54:46 AM	W2	24	5	8 950	8 955	0.005	44 910	71	54955 090		
115861	19/10/21 9:55:51 AM	W2	2A	6	8.990	8,990	0.000	53,900	65	54946.100		
115861	19/10/21 9:56:55 AM	W2	2A	7	8.985	8.990	0.005	62.885	64	54937.115	Hatch To	tals
115861	19/10/21 9:57:59 AM	W2	ZA	8	8.920	8.920	0.000	71.805	64	54928.195	Hold	Nett
115861	19/10/21 9:58:59 AM	W2	2A	9	8.955	8.960	0.005	80.760	60	54919.240		0.617.015
115861	19/10/21 9:59:52 AM	W2	2A	10	8.965	8.965	0.000	89.725	53	54910.275	1A	8,647.245
115861	19/10/21 10:00:45 AM	W2	2A	11	8.950	8.955	0.005	98.675	53	54901.325	ZA	9,604.565
115861	19/10/21 10:01:44 AM	W2	2A	12	9.080	9.080	0.000	107.755	59	54892.245	SA	9,838.800
115861	19/10/21 10:02:38 AM	W2	2A	13	9.040	9.040	0.000	116.795	54	54883.205	SA	9,689.905
115861	19/10/21 10:03:36 AM	W2	2A	14	9.010	9.010	0.000	125.805	58	54874.195	0A	9,018.435
115861	19/10/21 10:04:30 AM	W2	2A	15	9.020	9.020	0.000	134.825	54	54865.175	7A	7,601.050
115861	19/10/21 10:05:25 AM	W2	2A	16	8.970	8.970	0.000	143.795	55	54856.205	Iotal	55,000.000
115861	19/10/21 10:06:19 AM	W2	2A	17	8.980	8.980	0.000	152.775	54	54847.225		
115861	19/10/21 10:07:10 AM	W2	2A	18	8.975	8.975	0.000	161.750	51	54838.250		

Typical Report Printout

1		Citect" SC/		/ersion 8.20 Up Mbany_Compile Deployed version Encryption:	date 13 (Dec 15, 20 SCADA01 n: 15 Mixed)20)	
PU	Process ID	Process	Туре	Status	Message		
PU	Process ID 2515	Process System Services	Type System Services	Status Running	Message		
PU J	Process ID 2516 2704	Process System Services Albany.ReportServer1	Type System Services Report	Status Running Running	Message		
(PU) 41 41 41	Process ID 2516 2704 780	Process System Services Albany ReportServer1 Albany IDServer1	Type System Services Report IOServer	Status Running Running Running	Message		
	Process ID 2516 2704 780 8084	Process System Services Albany ReportServer1 Albany IDServer1 Albany AlamServer1	Type System Services Report IO Server Alem	Status Running Running Running Running	Message		

Citect SCADA Software Version Number

~ End of Document ~