

# **I-24 DOWNLOADED REPORTS**

The following reports may be downloaded from the Sentinel I24 instrument to a USB flash storage or to a PLC or computer using the RS-232 or TCP/IP communications ports.

The Instrument Configuration report displays the setup parameters from the INSTR CONFIG setup screens: This includes the current settings for the communication options (RS232, TCP/IP, USB), firmware versions, and other miscellaneous instrument settings.

inniwate versions, and other iniscentificous instrument settings.			
RS232 1			
RS232 Port 1 Interface	Terminal 115200\8N1\none Autosetup info		
RS232 Port 2 Interface RS232 Port 2 Config RS232 Port 2 Function Fixed width out Result Field 1 Result Field 2 Result Field 3 Result Field 4 Result Field 5 Result Field 6 Result Field 7 Result Field 8 Result Field 9 Test field TCP/IP	115200\8N1\none		
Mail Server IP address Gateway IP address Subnet Mask	172.16.0.1 255.255.0.0		
MAC address	0807AA030Cd2		
TCP/IP 1			
TCP/IP 1 Interface	Fixed width out Instr Config All result information		



TCP/IP 2					
TCP/IP 2 Interface TCP/IP 2 Function TCP/IP 2 Output TCP/IP 3	Terminal Station Cntrs Test only				
=======================================					
TCP/IP 3 Interface TCP/IP 3 Function TCP/IP 3 Output	Terminal Part Config No output	Part Config			
TCP/IP 4					
TCP/IP 4 Interface TCP/IP 4 Function TCP/IP 4 Output USB	Terminal Sta Last 100 No output				
======================================	 No	=======================================			
Generate report Result sync Backup\Restore Drive control	All results Yes Restore flow cal Unmount				
EMAIL					
User id Email password From Addr: Email Alert 1 A1 Addr: Email Alert 2 A2 Addr: Email Function Fnc Addr:	I24 c1t2s3 Conf_2.I24@cincinnati-test.com OFF john.doe@gmail.com OFF george.doe@gmail.com Station Cntrs robert.doe@gmail.com				
MISC					
Instrument name Serial Number Edit\View Security Time Date Screen Saver	Head block 2 2236067972 OFF 17:20:25 07/09/08 10 min key idle				
VERSION					
System Version Controller Module Sram CAN USB	178.136 (11534336) (10485760) (11534336) (11534336) (11534336)	1.78 1.36 0.39 0.01 0.01			



## STATION CONFIGURATION

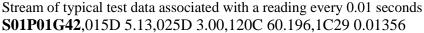
This report indicates the setup of the instrument hardware for the test station. Parameters include the manifold type that will define the type of tests available for selection within the part configuration section. The remaining parameters define the established pressure transducer, regulator type and range (for electronic regulator), and other transducers (flow, absolute pressure, or differential pressure). Also displayed is the number of part programs that are accessible.

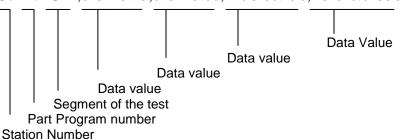
Station Configuration	
HARDWARE	
Manifold Type Number of Parts Transducer Type 1 Transducer Type 2 Regulator Type 1	AF - Diff Flow 99 Druck 115PSIA Honeywell 1k Mechanical

Station configuration report

### PRESSURE STREAMING

The pressure streaming output is a string of information identifying the significant information about a test every 0.01 seconds. This data output is only available via the RS232 port when the RS232 Interface is set for Terminal. The RS232 Ouput must be set for Streaming or Streaming and Test. To make the information output as short and concise as possible for each data point, the data identifiers are output in hex code. The data provided changes depending on the test type and phase or segment of the test. The data string consists of a station number, part number, segment or phase of the test process, elapsed time, time within each segment, pressure measurement, pressure loss or flow measurement, and potentially EDC correction. Each set of variable data consists of a variable identifier, variable unit of measurement, and the measured variable.





Station no., part no., and test segment identification

**S01** Station No Typically 01 for station 1

**P01** Part No 1 to 99

Phone: (513) 367-6699

G42 seGment no. testing cycle (See seGment table, Figure 195)



### S01P01G42,**015D 5.13,**025D 3.00,120C 60.196,1C29 0.01356

### Data Value

Variable code - Elapsed Time (See Variable table, Figure 196)

**5D** Unit code - Seconds (See Unit table, Figure 197)

5.13 Variable -5.13 seconds of elapsed time into the overall test cycle

## S01P01G42,015D 5.13**,025D 3.00**,120C 60.196,1C29 0.01356

### Data Value

**02** Variable code – Segment timer (See Variable table, Figure 196)

5D Unit code – Seconds (See Unit table, Figure 197)
 3.00 Variable – 3.00 seconds of time remaining in segment

S01P01G42,015D 5.13,025D 3.00,**120C 60.196**,1C29 0.01356

### Data Value

Variable code – Measured Pressure (See Variable table, Figure 196)

**0C** Unit code – psig (see Unit table, Figure 197)

**60.196** Variable – 60.196 psig pressure

S01P01G42,015D 5.13,025D 3.00,120C 60.196,1C29 0.01356

### Data Value

**1C** Variable code – Pressure loss (See Variable table, Figure 196)

Unit code - psig (see Unit table, Figure 197)Variable - .01356 Δpsig pressure change

Sample of Hex code numbering (0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F,10,11,...19,1A,...,1F,20,...)

Hexcode for	seGment Function	
seGment No.		
01 - 19	Internal and setup functions	
1A - 21	Pre-fill cycle functions	
22 - 30	Fill cycle functions	
31 - 40	Stabilization cycle functions	
41 – 5D	Test cycle functions	
5E - 68	Exhaust cycle functions	
69 - 75	Verification functions	
76 - 80	Action functions	
8B – 91	Time functions (like Relax)	
92 – 98	Transducer functions	
99 – 9E	Pressure functions	
9F – A9	Tooling motions	

Segment Table to identify phase of test sequence



Hex code	
Variable	Measurement Type
01	Elapsed time with Segment (incrementing time in test)
02	Segment timer (decrementing time remaining in segment)
03	Isolation decay timer
07	Total test time
0D	Test Pressure
12	Measured Pressure
1C	Pressure loss (Corrected)
44	Measured flow
4B	EDC offset

## Variable table for Measurement Type

Hex	Units	Hex	Units	Hex	Units	Hex code	Units
code	Pressure	code	Delta	code	Flow	Units	Time
Units		Units	Pressure	Units			
02	Atm	1F	ΔAtm	3C	sccm	5B	Hour
03	bar	20	Δbar	3D	sccs	5C	Minutes
04	cmHg	21	ΔcmHg	3E	scch	5D	Second
05	inHg	22	ΔinHg	3F	scfm	5E	millisecond
06	kPa	23	ΔkPa	40	slpm		
07	Mpa	24	ΔMPa	41	slps		
08	mbar	25	Δmbar	42	scfh		
09	mmHg	26	ΔmmHg	43	scfs		
0A	Pa	27	ΔPa				
0B	Torr	28	ΔTorr				
0C	psig	29	Δpsig				
0D	psiv	2A	Δpsiv				
0E	inWC	2B	ΔinWC				
0F	cmWC	2C	ΔcmWC				
02	mmWC	2D	ΔmmWC				

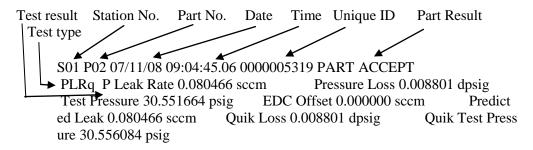
Unit of measurement code table

Phone: (513) 367-6699



## Terminal Test Output after each test

This "Test" output is a result of setting the "Interface" to "Terminal" and "Output" to include "Test". The result information has more complete descriptions of each test result parameter.



<sup>&</sup>quot;Test" output report for RS232 Port: Terminal (Pressure Decay Test)

## Fixed Width Output test results

With "Interface" set to "Fixed Width Out", the Sentinel I24 can output the results in one of three ways at the completion of each test via RS232 or TCP/IP.

Part result only First 2 test results All result information

### PART RESULTS ONLY AFTER EACH TEST

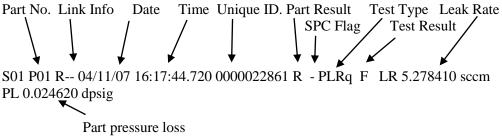
With the "Output" set to "Part results only" the following test result data appears. Test results are in order of most recent data at bottom.



### Part results only report

### First 2 test results

First 2 test results are for each part for Station 01. The results are in order of most recent data at the bottom. The "First 2 test results" output is established by setting the "Interface" to "Fixed Width Out" and "Output" to "First 2 test results".



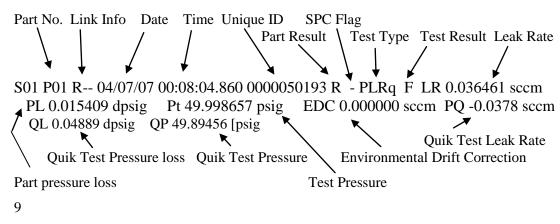
First 2 test results output (for single pressure decay test)

Phone: (513) 367-6699



### All result information

The "All result information" output is established by setting the "Interface" to "Fixed Width Out" and "Output" to "All Result Information". All result information is for each part for Station 01. The results are in order of most recent data at the bottom.



Each Test All result information output (for pressure decay test)

## STATION COUNTERS

The "Counters" report provides the counter data for the current active part number. To obtain reports for the other part numbers, Change Part to the desired part number and request the Counter report again.

I24 Part 01 counters	07\12\08 13:52:42
=======================================	
Cycles Since New	63262
Accept Cycles	6263
Reject Cycles	6545
Malfunction Cycles	5
Cycles Since Cal	5986
Clear Part Counters	No
Clear Stn Counters	No
Clear Stn Results	No

Counters report

Phone: (513) 367-6699