
 Real Time (20 Second) Data Base Single Loop
 (Packed into 3 bytes)

Data Element Constant: RTDB_LOOP

```

+-----+
|Inc| n |      |      |      |
|Det|Loops| Scan Cnt | Flag|Volume|
+-----+
^   [0]   ^   [1]   ^   [2]   ^
  
```

Field	Width	Byte	Bits	Usage
Inc Det	2	[0]	<7-6	Incident Detect:0=No Incident, 1=Tentative 2=Occurred, 3=Continuing
n Loops	3	[0]	<5-3	Number of Loops:1=Data Present, 0=No Data
Scan Cnt	11	[0]	<2-0	Scan Count:0-1200
Flag	3	[1]	<7-0	(Occupancy=Scan Cnt/12.0)
		[2]	<7-5	Validity Flag:0=Good Data 1=Short Pulse (<1/15 sec) 2=Chatter (3 cnts/sec) 3=Outside Vol/Occ Envelope 4=Reserved 5=Bad Average 6=Operator Disabled 7=Bad Loop
Volume	5	[2]	<4-0	20 Second Volume:0-17

For loop averages (1 minute, etc.):

- The Inc Det from the most recent 20 second sample is copied into the Inc Det field of the average. This has effect of making the average loop Inc Det reflect the most recent roadway conditions, not the average conditions.
- The Validity Flag field in the average data is determined as follows: If any of 20 second samples is marked as "Operator Disabled" or "Bad Loop", the average Validity Flag is set to "Bad Average". Otherwise, the average Validity Flag is set to "Good Data".

Per Michael Forbis - 28 June 1995

Real Time (20 Second) Data Base Station
(Packed into 3 bytes)

Data Element Constant: RTDB_STATION

```

+---+---+---+---+---+---+
|Inc| n |   |F|   |
|Det|Loops| Scan Cnt |1| Volume |
+---+---+---+---+---+---+
^   [0]   ^   [1]   ^   [2]   ^

```

Field	Width	Byte	Bits	Usage
Inc Det	2	[0]	<7-6	Incident Detect: 0=No Incident, 1=Tentative 2=Occurred, 3=Continuing
n Loops	3	[0]	<5-3	Number of Loops: 2-7, 0=No Data (7 loops maximum in a Station)
Scan Cnt	11	[0]	<2-0	Scan Count: 0-1200
Flag	1	[2]	<7-0	Validity Flag: 0=Data Not Usable (But calculated) 1=Data Usable (Interpolated if required)
Volume	7	[2]	<6-0	20 Second Volume: 0-119

For station averages (1 minute, etc.):

- The Inc Det from the most recent 20 second sample is copied into the Inc Det field of the average. This has effect of making the average station Inc Det reflect the most recent roadway conditions, not the average conditions.
- The Validity Flag field in the average data is determined as follows: If any of 20 second samples is marked as "Data Not Usable", the average Validity Flag is set to "Data Not Usable". Otherwise, the average Validity Flag is set to "Data Usable".

Per Michael Forbis - 28 June 1995