

GS 8 B On-Site Verification Record

GS 8 B STANDARD SETTINGS

This spreadsheet is protected, thus entry is only allowed in accessible fields, drop-down boxes & bright green cells. To use this calculator, you will only need to input requested information in the bright green cells from your data tags. The Converter type, engineering units, diameter and frequency have drop down boxes, allowing the user to simply choose from the list. This spreadsheet will automatically choose inch or metric (depending upon the converter), and state which GK(L) to use. Printing of the programming results is allowed by simply choosing "Print" through your File menu.

Important: If there is a flowrate value present at the GS8 B zero flow setting, you must compensate to obtain proper evaluation values. Either manually set converter zero value entry(record original for restoration) or zero converter (zero calibration to be redone for reconnect with primary head). If unable to manually set zero value entry or redo zero calibration after reconnecting, then use the offset-compensated tables on second sheet of this spreadsheet (Calculator + Zero Compensation). Be aware for possible low flow cutoff setting effects.

Date Recorded: 11/18/2025

Serial #: C255501718

Tag #: 25501718

Flow Tube Model #: IFC 100

Commission #:

Tested by: Dan Fenderson

DATA INPUT AREAS (in green)			
INPUT VARIABLES			
Converter	=	IFC 100	
Q Fullscale	=	1500	USGal/min
Select Meter Dia.	=	Inch mm	
		8 / 200	
DN	=	200	mm
Diameter	=	8	inch (ref only)
I _{0%}	=	4	mA
I _{100%}	=	20	mA
P _{100%} (Hz)	=	1000	Hz
GK	=		<do not use
GKL	=	8.5882	<use GKL
K	=	Value automatically chosen from K value table	

$$X = \frac{Q_{100\%} * K * F}{GK(L) * DN^2} = \frac{790639.1071}{343528} = 2.302$$

Y _{MAX}	=	2.0
Max Knob Setting	=	C

Output Current	loop _{Max}	=	17.904 mA
Output Frequency	Freq _{Max}	=	868.99 Hz
Output Flow Rate	Q _{Max}	=	1303.482 USGal/min

GS 8 B Knob Setting	Calculated Current Output (mA)	Calculated Frequency Hz	Calculated Flowrate (USGal/min)	Observed Selected I/O	Deviation Evaluation Flow Rate
				Flow Rate	
0	4.000	0.00	0.00	0.000	0.000
A	7.476	217.25	325.87	323.000	-0.88%
B	10.952	434.49	651.74	649.000	-0.42%
C	17.904	868.99	1303.48	1300.000	-0.27%
D					
E					

Version: Rev 1.3.4.1-USA

GS 8 B On-Site Verification Record

GS 8 B SETTINGS with Zero Compensation

This spreadsheet is protected, thus entry is only allowed in accessible fields, drop-down boxes & bright green cells.
 To use this calculator, you will only need to input requested information in the bright green cells from your data tags.
 The Converter type, engineering units, diameter and frequency have drop down boxes, allowing the user to simply choose from the list.
 This spreadsheet will automatically choose inch or metric (depending upon the converter), and state which GK(L) to use.
 Printing of the programming results is allowed by simply choosing "Print" through your File menu.

Important: This sheet is designed for uses when there is a flowrate value present at the zero setting and must be compensated to obtain proper evaluation values.
 Either manually set converter zero value entry(record original for restoration) or if converter can be zeroed to the GS 8 B simulator without a subsequent need to redo zero calibration after you reconnect with primary head, it is recommended that you do so. Be aware for possible low flow cutoff setting effects.
 If no need to compensate for a non-zero value at the "0" knob setting required, then use the non compensated tables on first sheet of this spreadsheet (Calculator).

Date Recorded: _____

Serial #: _____

Tag #: _____

Flow Tube Model #: _____

Commission #: _____

Tested by: _____

DATA INPUT AREAS (in green)		
INPUT VARIABLES		
Converter	=	IFC 300(GK)
Q Fullscale	=	1000 USGal/min
Select Meter Dia.	=	Inch mm 6 / 150
DN	=	150 mm
Diameter	=	6 inch (ref only)
I _{0%}	=	4 mA
I _{100%}	=	20 mA
P _{100%} (Hz)	=	1000 Hz
GK	=	3.0000 <use GK
GKL	=	<do not use
K	=	Value automatically chosen from K value table

$$X = \frac{Q_{100\%} * K * F}{GK(L) * DN^2} = \frac{263546.4}{67500} = 3.904$$

$$Y_{MAX} = \begin{matrix} 2.0 \\ C \end{matrix}$$

Output Current	I _{loopMax}	=	12.196 mA
Output Frequency	Freq _{Max}	=	
Output Flow Rate	Q _{Max}	=	512.244 USGal/min

Values Read w/ Knob at "0" Position		
Current (mA)	Frequency (Hz)	Flowrate (USGal/min)
4.00		0.00

As Measured:	GS 8 B Knob Setting	Compensated ¹ Current Output (mA)	Compensated ¹ Frequency Output (Hz)	Compensated ¹ Calculated Flowrate (USGal/min)	Observed Selected I/O	Apparent (As Measured) Deviation
					Flow Rate	Flow Rate
With Zero Offset Included ¹ For immediate comparison with as-measured	0	4.000	-	0.00	0.000	0.000
	A	6.049	-	128.06		
	B	8.098	-	256.12		
	C	12.196	-	512.24		
	D		-			
	E		-			

¹ Compensated by adding the measured zero value to calculated values.

Corrected for Zero ² Compensated As if zero reset	GS 8 B Knob Setting	Calculated ² Current Output (mA)	Calculated ² Frequency Output (Hz)	Calculated ² Flowrate (USGal/min)	Observed Flowrate - Zero Value (Flow Rate)	Deviation ²
					Flow Rate	Flow Rate
	0	4.000	-	0.00	0.000	0.000
	A	6.049	-	128.06		
	B	8.098	-	256.12		
	C	12.196	-	512.24		
	D		-			
	E		-			

² Corrected by subtracting the measured zero value from the observed values.