

	SONARtrac [®] Technical Note	
	TN0035	Date: 07Aug2025
	Subject: SONARtrac digital Menu structure	Revision 01
		Page 1 of 8

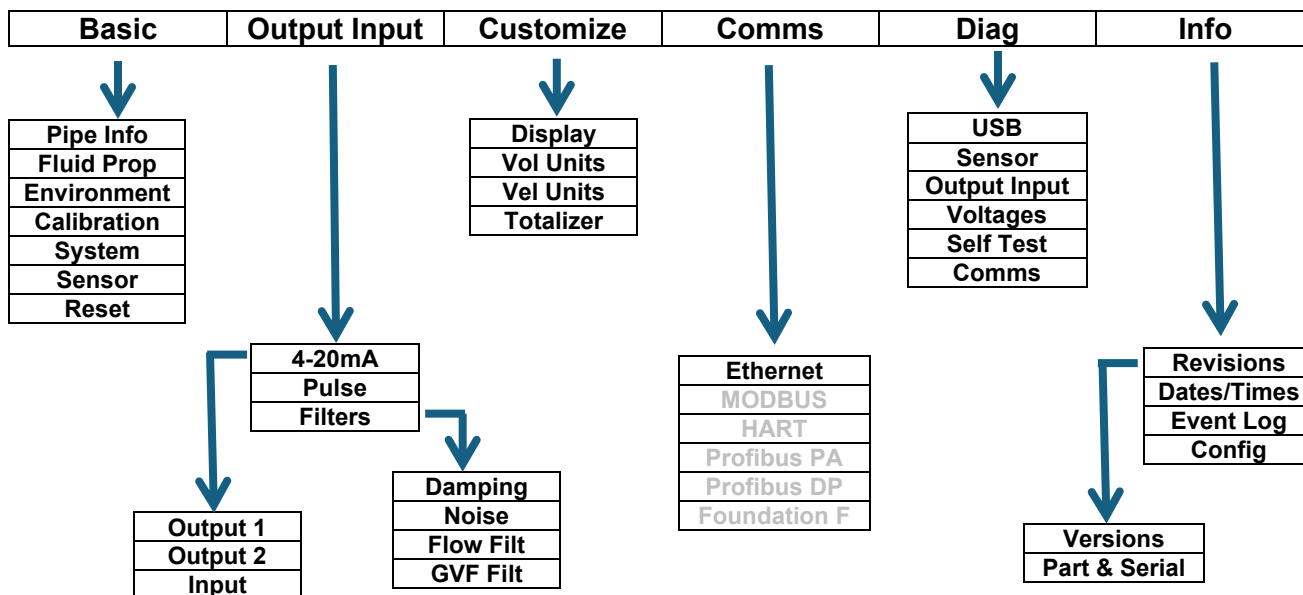
SONARtrac digital menu structure

Pressing any of the lower four softkeys will bring up the transmitter menu. The following is based on the 1.06.xx firmware release. (It is expected that the full menu structure will remain as shown below. However, there may be minor adjustments as newer firmware releases occur)

Top Level selections

Basic	Output Input	Customize	Comms	Diag	Info
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Sub Menu selections



The following pages provide a list of selection options available under each Sub-Menu. It is not intended for this technical note to dive into the purpose or function of each of these options. Many will be intuitive.

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	SONARtrac [®] Technical Note	
	TN0035	Date: 07Aug2025
	Subject: <i>SONARtrac digital Menu structure</i>	Revision 01
		Page 2 of 8

Sub-Menu Selection Options

For whatever field is selected the lower section of the display generally provides information regarding what options are available and what the default parameter is.

BASIC

Pipe Info	
Material (pipe)	Units
Modulus	Size / Sch or Size / SDR
Pipe ID	Wall Thickness
PipeOD	Liner Thickness

Fluid Properties	
SG (of fluid)	Water (or Custom)
SOS velocity of fluid	Water (or Custom)
Viscosity of Fluid	

Environment	
Pressure In	Temperature In
Pressure	Units (PSIG, PSIA, BarG, kPaG)
Temperature	Units (F or C)
Altitude	Units (ft or m)

Calibration	
Cal C0	
Cal C1	
Cal C2	

System	
Time	Protect (Write)
Date	Undetermined (Value)
Date Format	Short Tag
Long Tag	

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	SONARtrac® Technical Note		
	TN0035		Date: 07Aug2025
	Subject: <i>SONARtrac digital Menu structure</i>		Revision 01
			Page 3 of 8

Sensor (1 of 2)	Configuration
Band Serial (number)	1 – 8 Min
Direction (Flow)	1 – 8 Max
Gain Option	
Gain (setting)	

Sensor Band 1-8 Level (2 of 2)				
Ch	Min	Max	Lowest Min	Highest Max
1	-15494	+15693	-21255	+20454
2	-15234	+15214	-21115	+20354
3	-15065	+15654	-20874	+19954
4	-15356	+15325	-21165	+20334
5	-15765	+15412	-21376	+20984
6	-15343	+15634	-21155	+20324
7	-15032	+15512	-20815	+19925
8	-15257	+15484	-21055	+20264

Reset	
Totalizer	
History	
Event Log	
Comms	

Output Input

4-20mA - Output 1	(1 of 2)
Output (select)	Over Range
Low (4 mA value)	Rail
High (20mA value)	

4-20mA - Output 1	(2 of 2)
Trim	

4-20mA - Output 2	(1 of 2)
Output (select)	Over Range
Low (4 mA value)	Rail
High (20mA value)	

4-20mA - Output 2	(2 of 2)
Trim	

Input	
Low	Damping
High	Tau

Pulse	
Output	Max
Width	
Mult	
Cutoff	

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	SONARtrac [®] Technical Note	
	TN0035	Date: 07Aug2025
	Subject: SONARtrac digital Menu structure	Revision 01
		Page 4 of 8

Filters - Damping	
Flow Rate (Enable Disable)	GVF (Enable Disable)
Tau	Tau

Filters - Noise	
Flow Rate (Enable Disable)	GVF (Enable Disable)
Flow Mag(nitude)	GVF Mag(nitude)

Flow Filt	
Flow Rate Quality Filt	(1 of 2)
Enable / Disable	Length
No Flow Length	Up Count
	Down Count

GVF Filt	
GVF Quality Filt	(1 of 2)
Enable / Disable	Length
No Flow Length	Up Count
	Down Count

Flow Filt	
Flow Rate Change Filt	(2 of 2)
Percent	
Perc Length	

GVF Filt	
GVF Change Filt	(2 of 2)
Percent	
Perc Length	

Customize

Display	
Line 1	Brightness
Line 2	

Vol Units	
Volume	Time
Base	Base
Multiplier	Multiplier
Label	Label

For custom flow units

Vel Units	
Velocity	
SOS	

Totalizer	
Input	Multiplier
Units	
Low Cut	
Low Cut Value	

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	SONARtrac [®] Technical Note	
	TN0035	Date: 07Aug2025
	Subject: <i>SONARtrac digital Menu structure</i>	Revision 01
		Page 5 of 8

Comms

Ethernet	
DHCP	
IP Address	
SubNet Mask	
Host Name	

ModBus	
Address	Baud Rate
Swap	Data Width
	Parity
	Stop bits

HART	
Address	Arm
Revision	RespPre
Short TAG	
Long TAG	

Profibus or Foundation Fieldbus	

When Features are enabled

Diag

USB (1 of 2)	
Snapshot	Save Events
Save Config	Save Info
Load Config	

USB (2 of 2)	
Save Raw Data	Duration
Save History	Duration
Disk Info	Decimation
Format	

Sensor Test	
Board	
Band	

Output Input	
Ch1 Out mA	<i>Input mA</i>
Ch 2 Out mA	
Pulse (PPS)	
Pulse Width	

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	TN0035		Date: 07Aug2025
	Subject: <i>SONARtrac digital Menu structure</i>		Revision 01
			Page 6 of 8

Voltages (1 of 4)	Transmitter
12V Input	0.675V DDR
5V USB	1.0V DSP
1.8V Supply	3.3V Supply
1.35V Supply	

Voltages (2 of 4)	Transmitter
4-20 I/O 24V	Sensor Pwr Out
4-20 In Pwr	Sensor Pwr In
XMTR Temp (C)	Sensor Current

Voltages (3 of 4)	Sensor
PSV +	1.8V DSP
PSV -	1.2V DSP
3.3V	6.0V PS
3.3V DSP	5V Analog

Voltages (4 of 4)	Sensor
V + Analog	+1.7V P1
V – Analog	-1.7V P1
Band Temp	Vcomm P1

Self Test	
Sys Volts	
Sens Volts	
Screen	

Comms	
(1 of 6) ModBus	
(2 of 6) HART	
(3 of 6) xDSP	
(4 of 6) Modular I/O	
(5 of 6) USB	
(6 of 6) TCP/IP	

Each category has its own page and associated fields that are not expanded upon here

Info

Revisions - Versions	
	(1 of 2) provides Transmitter Firmware versions
	(2 of 2) provides Sensor Firmware versions

Revisions – Part & Serial	
	(1 of 4) provides Transmitter Info
	(2 of 4) provides Transmitter Info
	(3 of 4) provides Sensor Info
	(4 of 4) provides Sensor Info

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	TN0035	Date: 07Aug2025
	Subject: <i>SONARtrac digital Menu structure</i>	Revision 01
		Page 7 of 8

Dates / Times	
	Event Date / Times

Event Log	
	Event Log

Config	
	Features Enabled / Disabled

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	TN0035 Subject: SONARtrac digital Menu structure	Date: 07Aug2025
		Revision 01
		Page 8 of 8

Revision History

Rev	Date	Changed By	Approved By	Change Description
01	07Aug25	T Griffin	T Griffin	Initial Release

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