

Product Information: Paperless Process Recorder
FOOD

Paperless Process Recorder with Legendary™ Cloud Software

Application/Specified Usage

- Paperless process recorder that will meet all PMO requirements
- Drop-in replacement for Anderson-Negele and most competitor existing paper recorders

Application Examples

- Continuous pasteurization in HTST, UHT, and Aseptic ranges
- Cold Product Recording
- Clean-In-Place (CIP)
- Clean-Out of-Place (COP)
- Juice Pasteurization
- Egg Pasteurization
- ESL Applications
- General Process Recording and Monitoring

Features

- 10" touchscreen display
- Pre-configure system information like operator list, product types, tank or silo list etc.
- Create and select from list of common annotations
- Scroll through all historical trends in local PPR display
- Internal redundant storage for data (up to 7 years) and charts (last 100 days)
- Unlimited cloud storage for both data and charts
- Data encryption during transmission to backup servers, preventing interception or falsification of records
- NEMA 4X enclosure

Advantages

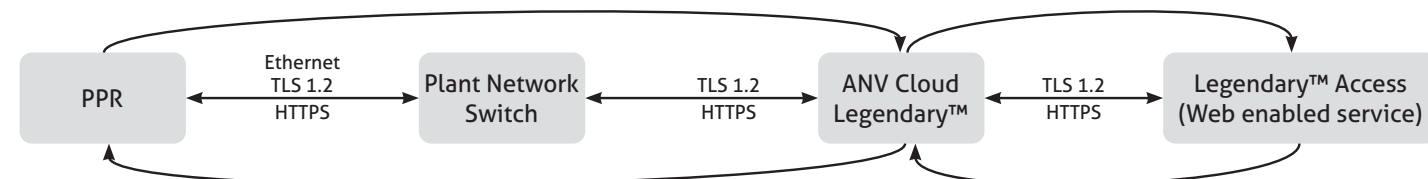
- Create audit ready digital records that meet both your internal and PMO requirements
- Streamlined annotation and approval workflow for both on-premise PPR and Legendary™ cloud software
- Intuitive digital annotation including list of pre-populated common annotations
- Supervisors, quality team and PCQI can remotely review records, request additional notes from operators, and approve records
- Secure storage and access of all historical records for authorized users

System Overview
API Call from PPR to Legendary™

- Send new and revised charts for review, approval and backup
- Send task and approval updates
- Check for new tasks, annotations, approvals, workflow and user updates

Read from Legendary™ by web-enabled device

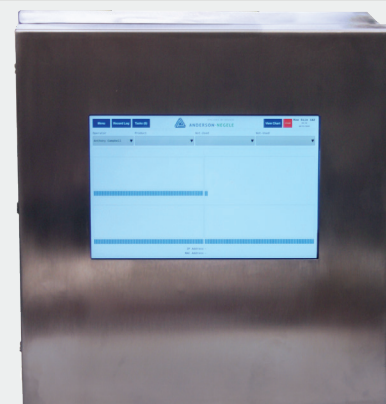
- Access legal records for review and approval
- Track approval status of legal records
- Track status of responses from operator and other associates

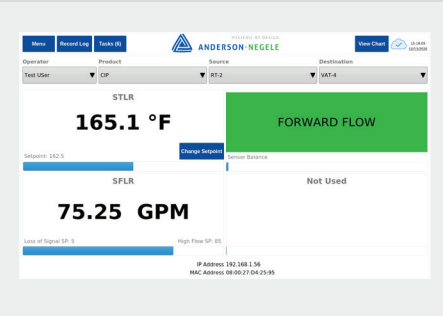

API Response from Legendary™ to PPR

- Respond with new tasks, annotations, approvals, workflow, and user updates

Write from web-enabled device to Legendary™

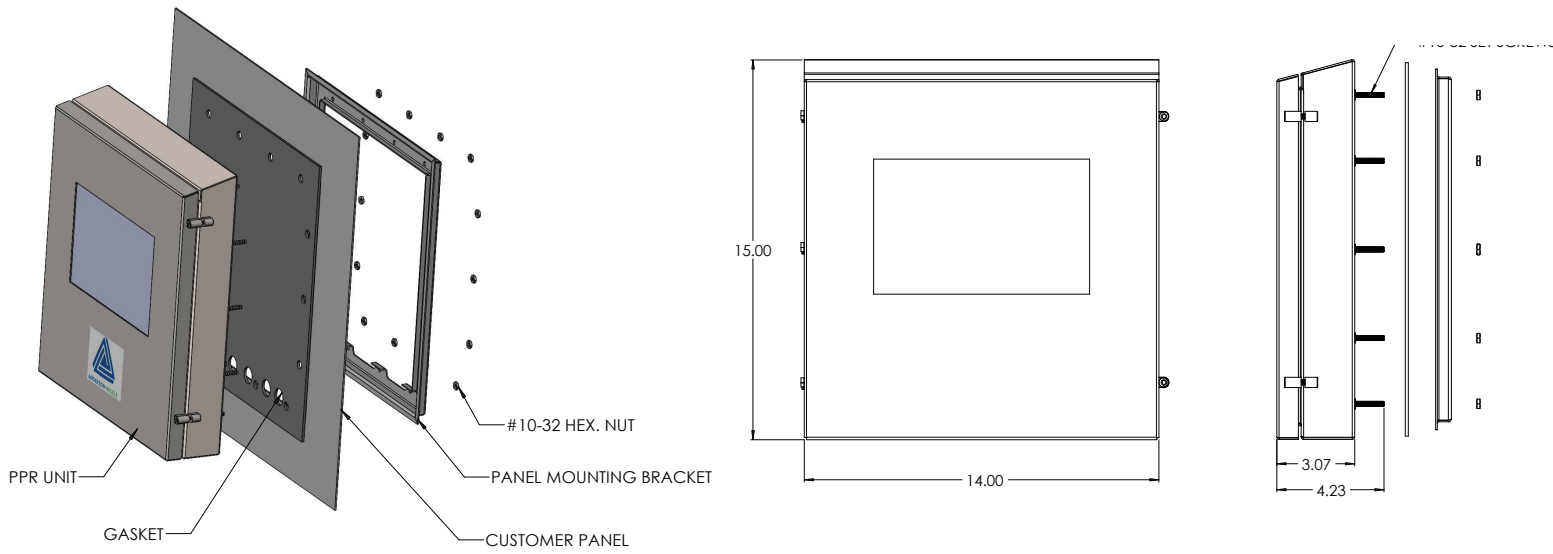
- Add notations
- Assign tasks (e.g. request annotation or more information)
- Add approvals

Paperless Process Recorder (PPR)

Legendary™ Cloud Software

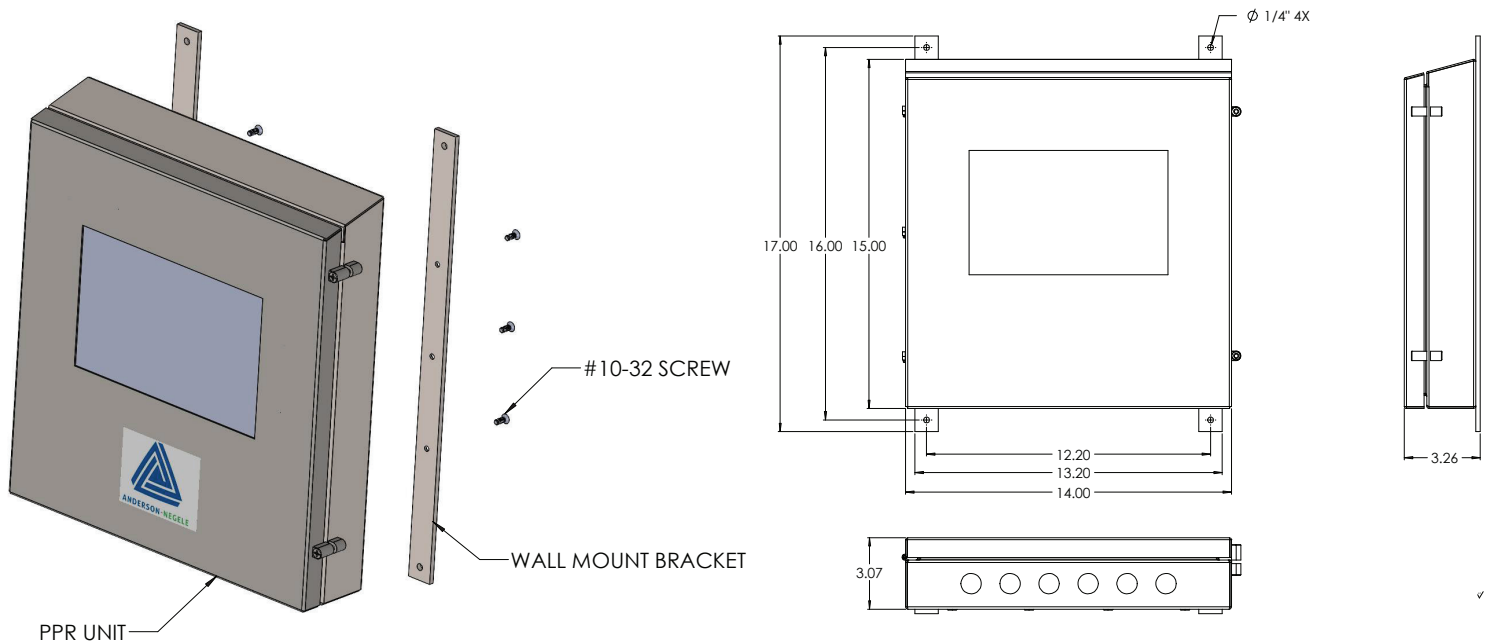
Touchscreen Display Interface


Specification			
Inputs	Number of Inputs	Up to 8	
	Current	0-20mA, 4-20mA	
	Voltage	0-25mV, 0-100mV, 0-1V, 0-10V, 1-10V	
	RTD	Pt100 or Pt1000, 2 or 3 wire	
	Scan Rate	100ms	
	Recording Rate	3 seconds	
	Recording Accuracy	+/- 0.3% of span	
Outputs	Ambient Temperature Effect	+/- 0.005% of span per °F deviation from 77°F (0.01% / °C from 25 °C)	
	mA Outputs	Up to 4; 0-20mA, 4-20mA	
	Relay Outputs	Up to 4; Mechanical SPDT, Normally Open or Closed	
	Digital Alarms	Contacts rated at 5 amps resistive at 115 VAC, 2.5 amps resistive at 230 VAC	
		Up to 16	
Backup Storage	Removable Storage	supplied with 32GB microSD card. Contains last 100 days of Record Images & 24 hour backup record images	
	Non-Removable Storage	4 GB eMMC (Up to 7 years of raw data and annotations. Accessible only through HMI. Cannot be exported.)	
	Cloud Storage	Unlimited storage of all PPR created record images in Legendary™	
Interface	Display	10" 1280x800 Touchscreen display with chemically strengthened glass with shatterproof screen protector	
	Operating System	Embedded Linux	
Cloud	Network	Ethernet/RJ45	
	Server	AWS	
	Destination Domain	https://clients.intellex.com , https://preprod-na.intellex.com and their subdomains	
	TCP and UDP Ports	HTTP(80), HTTPS(443), DNS(53), SSH(22)	
	Encryption	HTTPS / TLS 1.2 or above	
	Data Format	JSON	
	Sync frequency	15 minutes	
Power	IP Address	Dynamic or Static	
	Voltage	24-30VDC Max. Minimum 20V at PPR power supply terminals	
Enclosure	Current	Max 2 amperes	
Enclosure	Mounting Option	Wall Mount / Surface Mount	Panel Mount (Through Panel)
	Material	Stainless Steel	Stainless Steel
	Conduit Openings	Qty. 6, 7/8" diameter, Located on bottom	Qty. 6, 7/8" diameter, Located on back
	Overall Dimensions	14"W x 15"H x 3"D	14"W x 15"H x 3"D
	Panel Depth	N/A	1.25"
	Panel Cutout	N/A	12.7"W x 12.7" H + 6 holes for wiring
	Front Panel Protrusion	N/A	3"
	Water Ingress Rating	NEMA 4X	NEMA 4X
	Weight	16 lbs.	16 lbs.
	Vibration	3 to 100 Hz @ 0.2g	3 to 100 Hz @ 0.2g
	Accessories	Wall mount brackets and screws	Panel mounting bracket, gasket and nuts
Environment	Operating Temperature	32-122°F	
	Humidity	10 to 90% RH, non-condensing	
Approvals	Electrical	CE	
	Water Ingress Rating	NEMA 4X	
Warranty		2 Years	

Dimensional Drawings - Panel Mount, Back Wiring



Dimensional Drawings - Wall Mount, Bottom Wiring



Product code										
PPR	Paperless Process Recorder NOTE: Requires Annual Legendary™ Cloud Subscription									
	Safety Thermal Limit Recorder (STLR)									
XX	None NOTE: STLR options below include STLR relay and two input cards for dual PT1000 RTD STLR options require dual PT1000 sensor like SB probe (not included see page 5)									
TD	STLR with 24VDC relay									
T1	STLR with 110VAC relay									
T2	STLR with 220VAC relay									
	Safety Flow Limit Recorder (SFLR)									
X	None									
F	SFLR (only available with STLR option TD, T1, or T2; includes SFLR relay, one 4-20mA input card for SFLR and one additional universal input card)									
	Fixed									
	XX									
	Transmitter Power Supply									
	X None									
	4 4 Isolated 24VDC Supplies									
	8 8 Isolated 24VDC Supplies									
	Additional Analog Inputs (Transmitter power supply not included, see spare parts) With STLR Option XX									
	4U Four Inputs									
	8U 8 Inputs									
	XX With STLR Option TD, T1, or T2 None									
	mA Outputs/Re-Transmission									
	XX None									
	2A Two - Internally powered									
	4A Four - Internally powered									
	Additional Relay Outputs									
	XX None									
	2R Two									
	4R Four									
	Enclosure									
	W Wall Mount, Bottom Wiring									
	P Panel Mount w/Enclosure, Back Wiring									
	Tamper Evident Sealing Covers									
	X No (Only available with STLR Option XX)									
	S Yes									
	Fixed									
	XXXXXX									
PPR	TD	F	XX	X	XX	4A	4R	W	S	XXXXXX

STLR AND SFLR LEGENDARY™ CLOUD SOFTWARE SUBSCRIPTIONS

Subscription purchase order must be sent to orders@anderson-negele.com directly by the end customer along with form 10035 Legendary™ Specification Sheet. Subscription fee is per PPR.

CS-LD-36-XXXXXX 3 year subscription

CS-LD-60-XXXXXX 5 year subscription

STLR AND SFLR LEGENDARY™ CLOUD SOFTWARE SUBSCRIPTIONS

NS-LD-36-XXXXXX 3 year subscription

NS-LD-60-XXXXXX 5 year subscription

IMPLEMENTATION SERVICE

Implementation Service includes pre-configuration of PPR and Legendary™ to customer specific requirements

CS-LD-XX-STRTUP PPR and Legendary™ Implementation Service

STLR STARTUP KIT

57219A0001 Transfer Switch Box for Series Recorder Control

SB...PPR... Dual Head SB (See STLR Sensor Product Code on Page 5)

CS-LD-XX-STRTUP PPR and Legendary™ Implementation Service

STLR Sensor Product Code

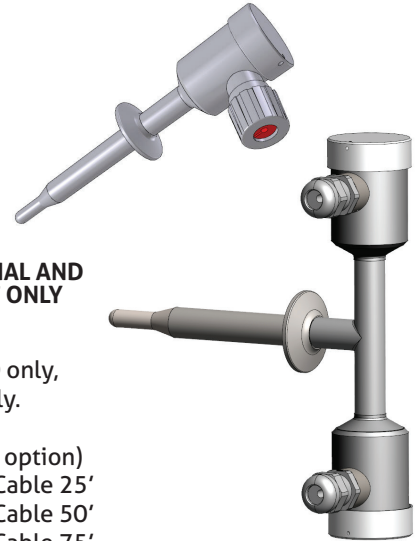
SB-								
FITTING								
004	1-1/2" Tri-Clamp							
005	2" Tri-Clamp							
006	2-1/2" Tri-Clamp							
007	3" Tri-Clamp							
008	4" Tri-Clamp							
061	Split Ferrule (button)							
119	3/4" Swagelok ¹							
¹ Not 3-A Compliant								
HOUSING								
1	Straight							
2	Bent (for clearance 22-1/2° - split ferrule only)							
PROBE LENGTH								
025	2" (std. for 119 fitting)							
081	5-1/2" (standard)							
109	7-1/4"							
CABLE LENGTH								
00	No Cable							
01	25'							
02	50'							
03	75'							
04	100'							

PPR	
M	RTD for SECOND HEAD
L	Dual PT1000 RTD ²
	Dual PT100 RTD ²
DUAL HEAD SB	

----- LAST 4 CHARACTERS ARE OPTIONAL AND USED FOR PPR STLR STARTUP KIT ONLY

² Available with Housing Option 1 only
Available with Cable Length option 00 only, cables need to be purchased separately.

SB Cables: (2X required for PPR matrix option)
42035C0005 - 6 Conductor Shielded Cable 25'
42035C0010 - 6 Conductor Shielded Cable 50'
42035C0015 - 6 Conductor Shielded Cable 75'
42035C0020 - 6 Conductor Shielded Cable 100'



Spare Parts - Electrical

42064B0003	3V Coin Cell Battery
46841A0001	32 GB MicroSD Memory card
46840A0001	USB Cable for Touchscreen Display

Spare Parts - Mechanical

44390A0001	Grommets (Kit of 6)
42080D0001	Cable Glands (Kit of 6)
57216A0001	Wall mount bracket
57216A0002	Panel mount bracket w/o gasket
46825A0001	Panel mount gasket
46826A0001	Main Board Sealing Cover
46844A0001	STLR Relay Sealing cover
57245A0001	Kit of 5 strain relief boards

Notes