Online Phenolphthalein Alkalinity Analyser

PACON 4900

PACON 4900 is a compact, easy to operate and accurate on-line analyser from JENSPRIMA for the automatic on-line measurement of phenolphthalein alkalinity and quality control of boiler water. The titrimetric colour change principle allows the measurement of high and low ranges by selecting different reagents. Low maintenance and low reagent consumption for long continuous operation. Standard 4-20mA and RS485 Modbus outputs for easy integration into your existing control system.



Two different measurement ranges of reagents are available:

TP5050 Phenolphthalein alkalinity: 0.2~5mmol/L TP5200 Phenolphthalein alkalinity: 0.8~20mmol/L



Order Guide

Order No.	Description
33-4900-00	PACON 4900 online Phenolphthalein Alkalinity Analyser
50-4905-01	TP5050 phenolphthalein alkalinity
50-4920-01	TP5200 phenolphthalein alkalinity
50-5000-10	Spare Parts Kit Including pump head (including pump tube), all seals, stirrups, connection pipe of reagent bottle, recommend to exchange every year.

Measurement parameters

Phenolphthalein alkalinity (p-value)

Applications

boiler feedwater、boiler water、Cooling Water

Features

- Durable, accurate analyser method (titration for colour change)
- Automatic on-line monitoring, only one reagent required
- Special material measuring bath, no condensation on optics
- Stable measurements, generally no calibration required
- 4-20mA/RS485 Modbus outputs
- 4 programmable relay outputs
- External signal input function (can be linked with external devices)
- Compact design for easy installation
- Low maintenance and low reagent consumption

Technical parameter

Reagents selected: TP5050: 0.2 - 5mmol/L 、TP5200: 0.8 - 20mmol/L

±5% of the maximum value of Accuracy: the selected reagent

Repeatability: ±2.5% of the maximum value of

the selected reagent

Titrimetric colour change method

Reagent consumption: 0.05-0.6ml/per analysis 2 years from the factory Reagent expiry: Analysis time: ca. 3 min depending on phenolphthalein alkalinity

concentration and set rinse time

Measurement interval: 5-360 min optional

Automatic cleaning: The instrument is automatically rinsed after each

measurement

Calibration: Service menu manual calibration 10-45°C Ambient temperature:

Water sample temperature: 5-40°C

Water sample pressure: 0.5-5 bar, 1-2 bar recommended

Water quality requirements: Clear, colourless, no suspended matter, no air bubbles,

pH>8.2

100-240VAC, 50/60Hz Power supply:

Power consumption: 20W (at work), 3.5W (at standby)

Inlet/outlet: 6mm hose, open discharge no back pressure discharge

0/4-20mA 0/4-20mA

Current output: 4 passive NC/NO relay outputs, 250VAC/1A Relay output:

External input: 2 programmable input contacts

Protection class: IP65

300×300×200mm Dimensions:

Weight: ca. 4Kg

Measurement is by titration and the colour changes markedly from red to yellow. Phenolphthalein alkalinity measurements are commonly used in boiler feed water and boiler furnace water to estimate corrosion behaviour and are measured in mmol/L.



