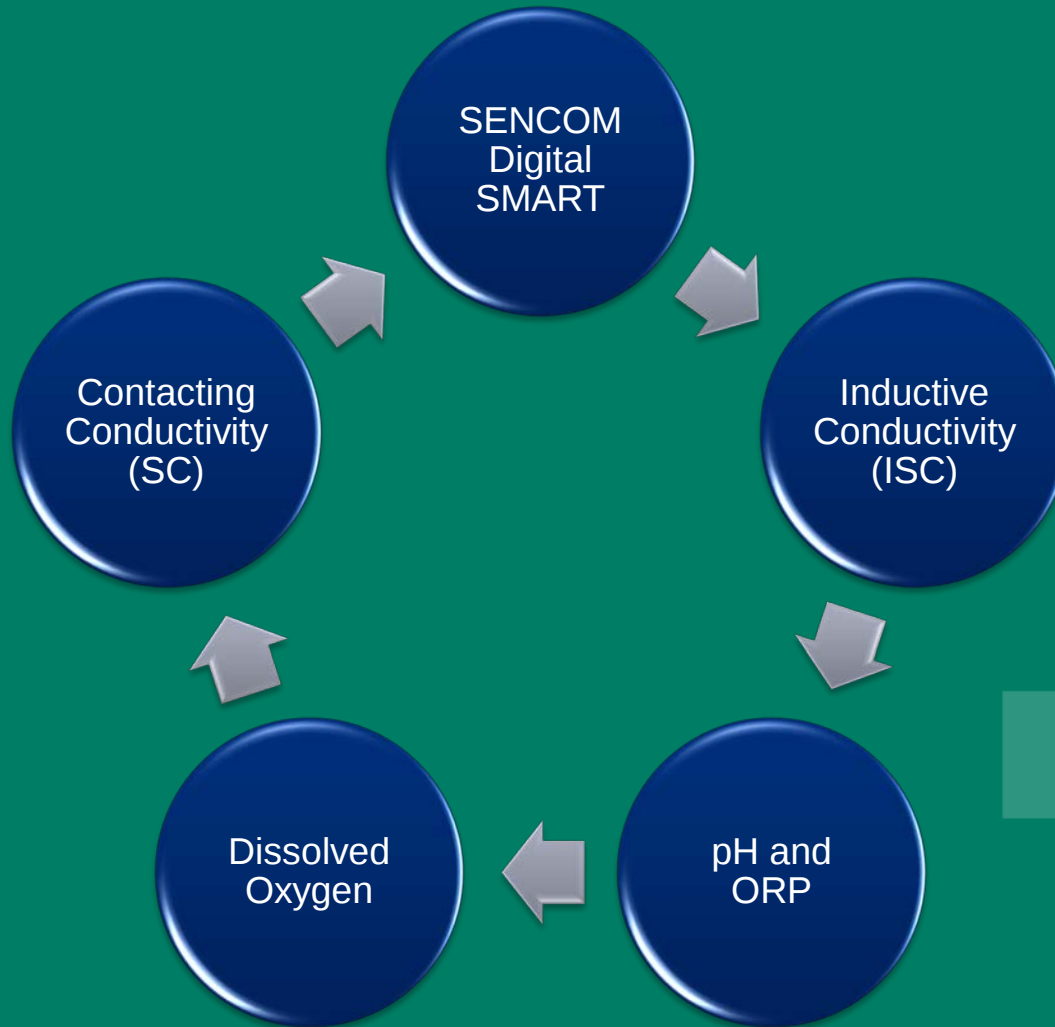


Select Your Measurement

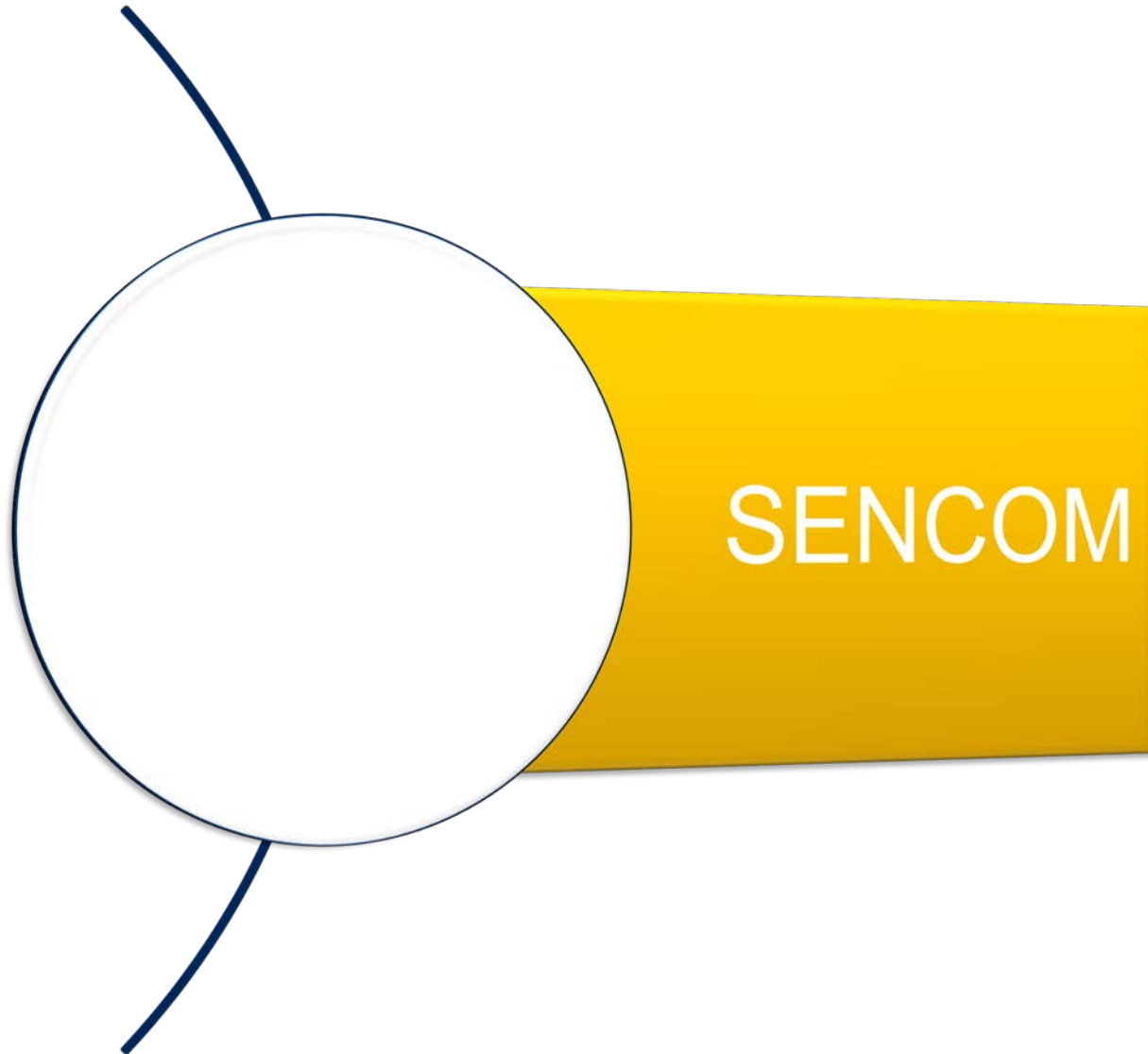


Digital SMART Sensors



Wire Color	Terminal #	Function
NONE	NC	-----
Black	82	Shield
Yellow	83	B- Data (negative)
Green	84	A+ Data (positive)
NONE	NC	-----
White	86	Signal ground
Brown	87	V5 Power supply for SENCOM SA

Colors coming from WU11 cable

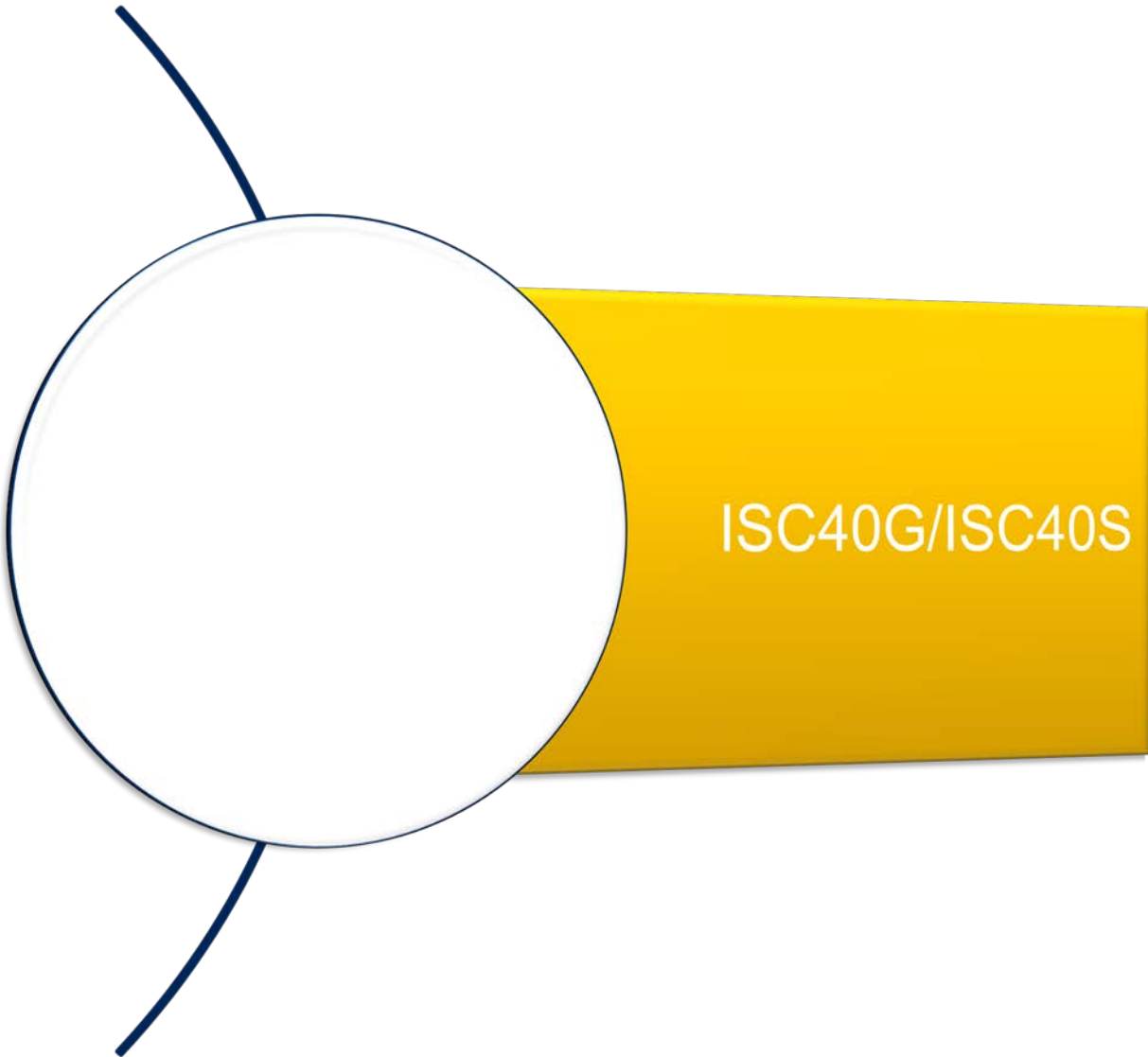


Inductive Conductivity



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Brown Core	13	Receive coil
Brown Shield	17	Shield
Yellow	14	LE
White Shield	16	Drive coil
White Core	15	Shield

Colors coming from integral cable



**SELECT
YOUR
SENSOR**

SC4A Integral Connection

SC4A VP Connection

SC42-SP24, -SP34, -EP, -TP, -FP; SX42-xxxx-NS*A

SC42-SV, -TV, -FV; SX42-xxxx-NV*A

SX42-xxxx-AF*A

SC42-SP36, -SP26, -SP16, -TC36, -TC26

SC42-SP14, -SH24

Hamilton Conducell Integral Connection

Hamilton Conducell VP Connection

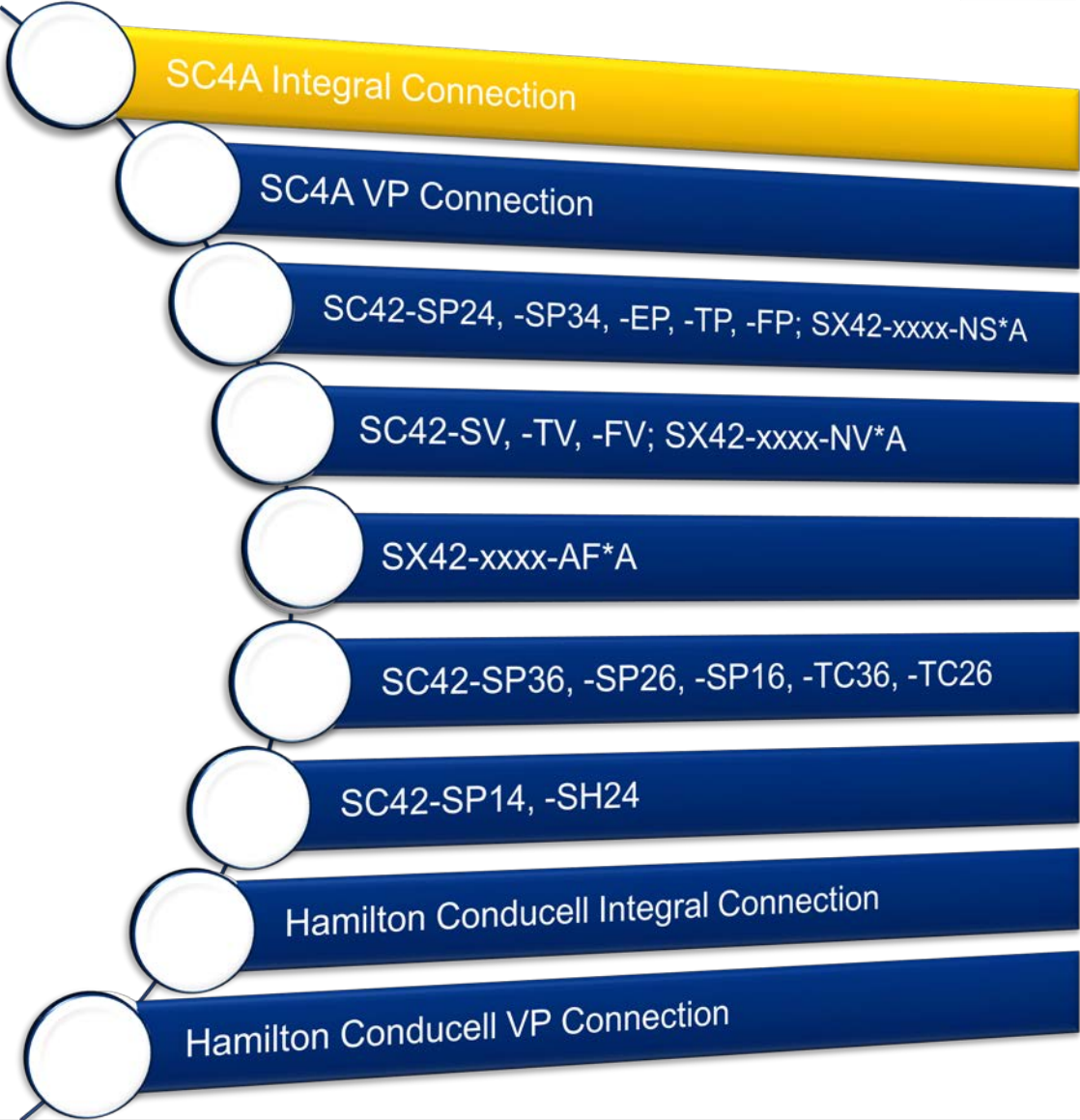


Conductivity



Wire Color	Terminal #	Function
White	11	Temp, T1
Brown	12	Temp, T2
Green	13	Outer Electrode, Uo
Yellow	14	Out Electrode, Io
Gray	15	Inner Electrode, Ui
Pink	16	Inner Electrode, Li

Colors coming from the Integral Cable

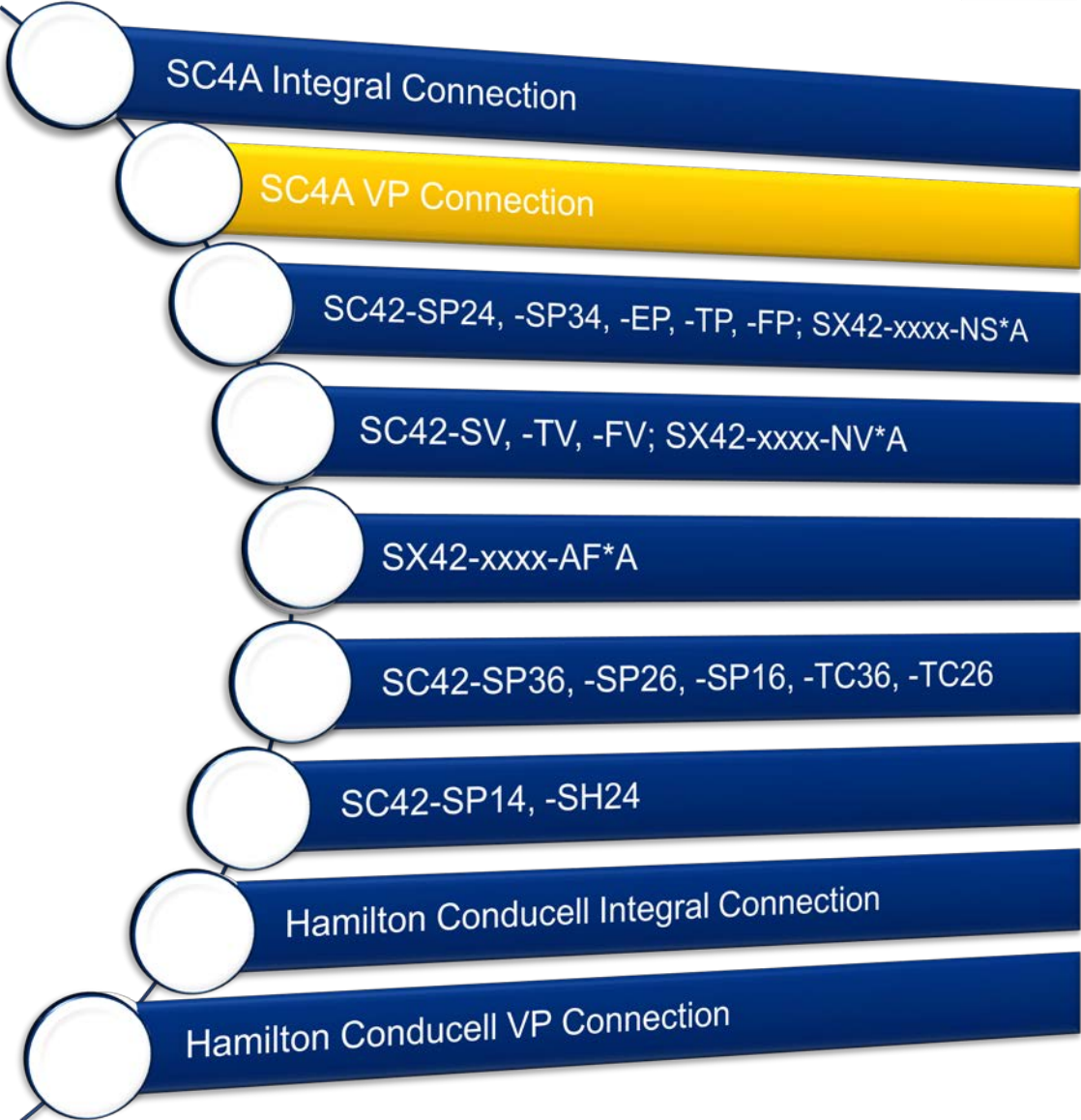


Conductivity



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Core White	13	Outer Electrode, Uo
White Shield	14	Out Electrode, Io
Core Brown	15	Inner Electrode, Ui
Shield Brown	16	Inner Electrode, Li

Colors coming from the **WU10-V-D-**-Cable**;
Yellow and Green not connected

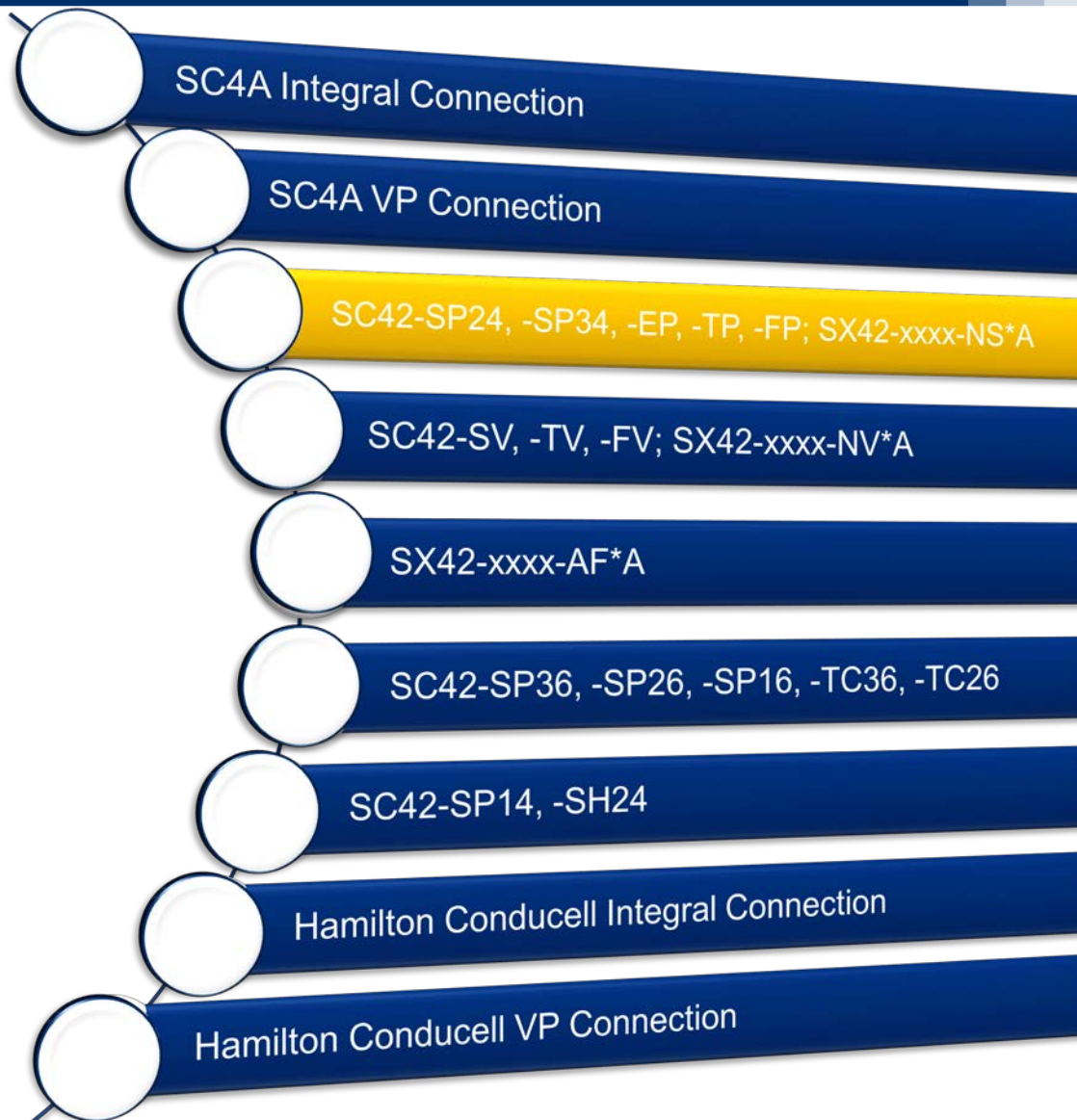


Conductivity



Wire Color	Terminal #	Function
White	11	Temp, T1
Brown	12	Temp, T2
Green	13	Outer Electrode, Uo
Yellow	14	Out Electrode, Io
Gray	15	Inner Electrode, Ui
Pink	16	Inner Electrode, Li

Colors coming from the WU40-LHxx Cable

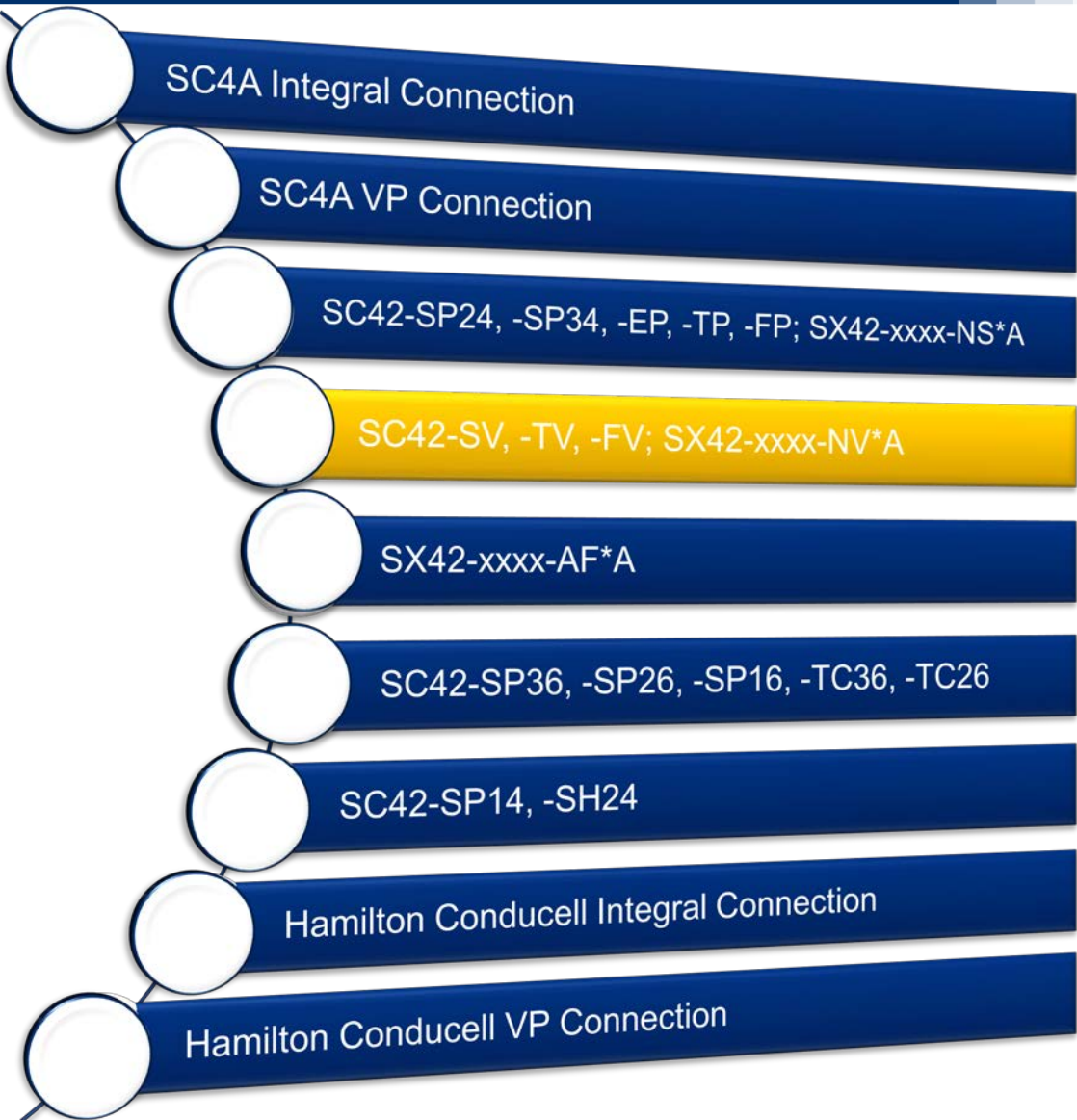


Conductivity



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Core White	13	Outer Electrode, Uo
White Shield	14	Out Electrode, Io
Core Brown	15	Inner Electrode, Ui
Shield Brown	16	Inner Electrode, Li

Colors coming from the **WU10-V-D-**- Cable**;
 Yellow and Green not connected

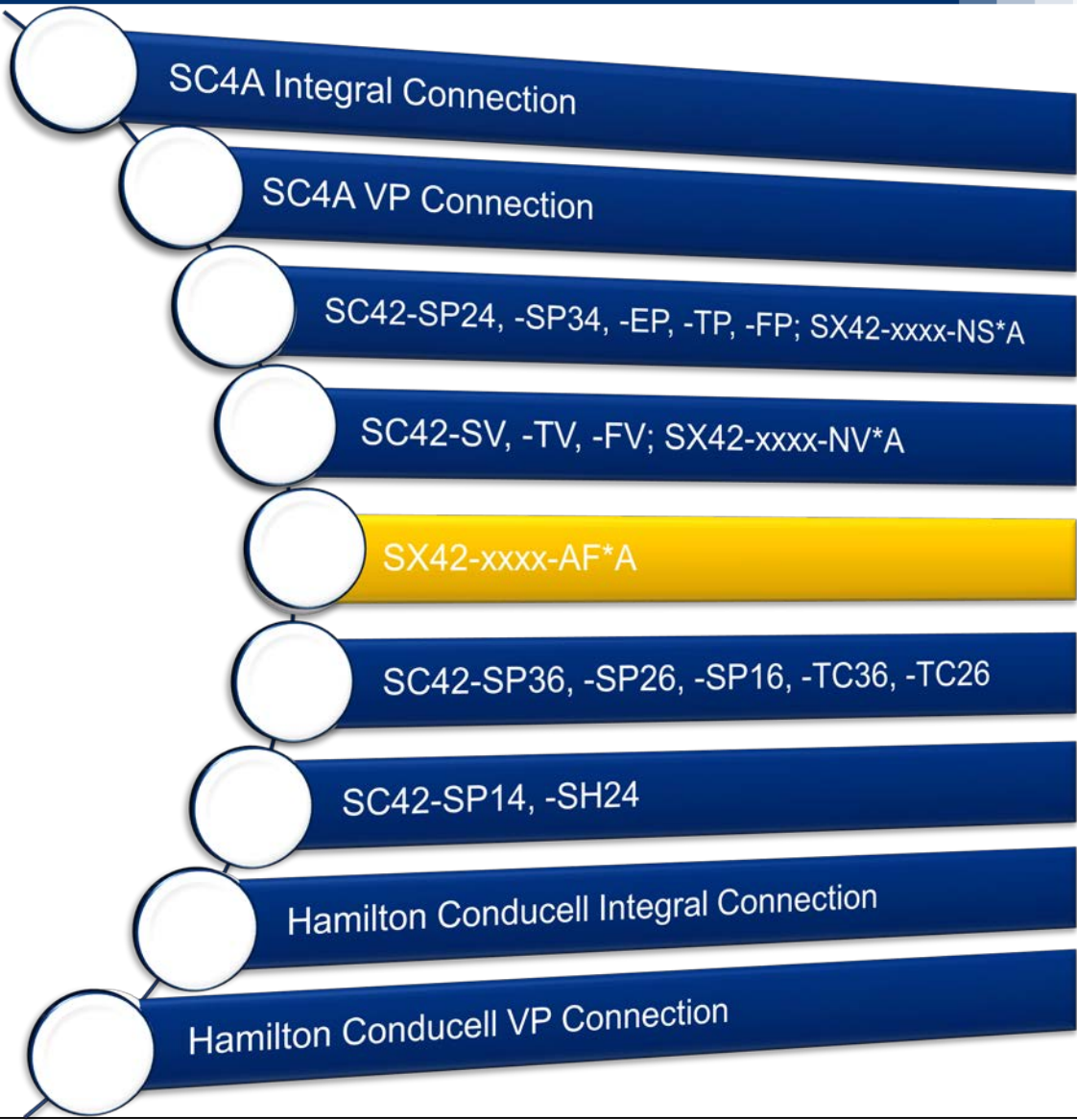


Conductivity



Wire Color	Terminal #	Function
- 1/ Red	11	Temp, T1
- 2 / Blue	12	Temp, T2
+ 2 /Brown	13	Outer Electrode, Uo
NONE	14	Out Electrode, Io
+ 1 / White	15	Inner Electrode, Ui
NONE	16	Inner Electrode, Li

Colors coming from the sensor J-Box Terminal / WF10 Color Cable; All other wires from WF10 are not used



Conductivity

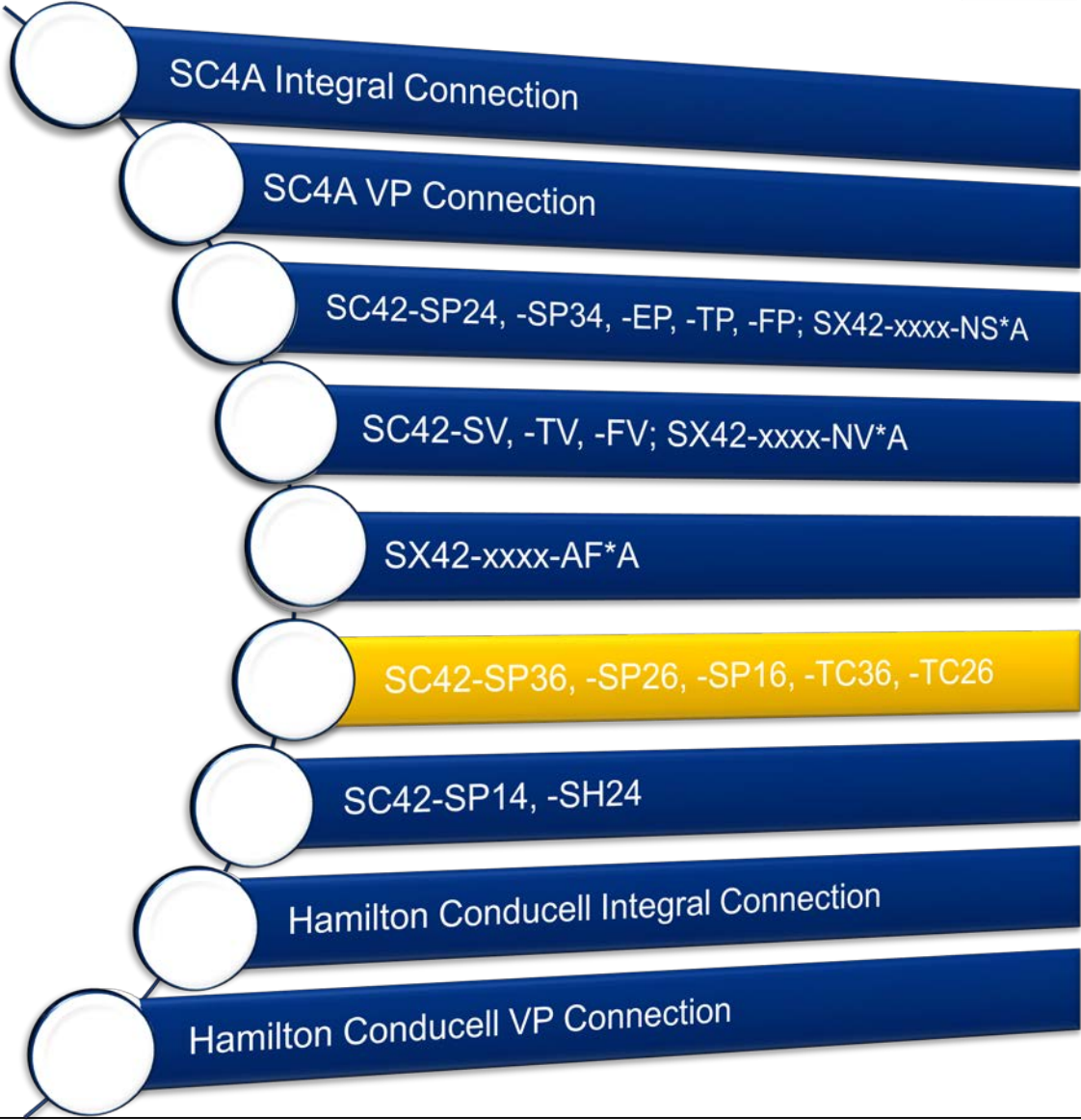


Wire Color	Terminal #	Function
Red	11	Temp, T1
Green	12	Temp, T2
NONE	13	Outer Electrode, Uo
White	14	Out Electrode, Io
NONE	15	Inner Electrode, Ui
Black	16	Inner Electrode, Li

Jumper

Jumper

Colors coming from the Integral Cable; Clear (SHLD) not used



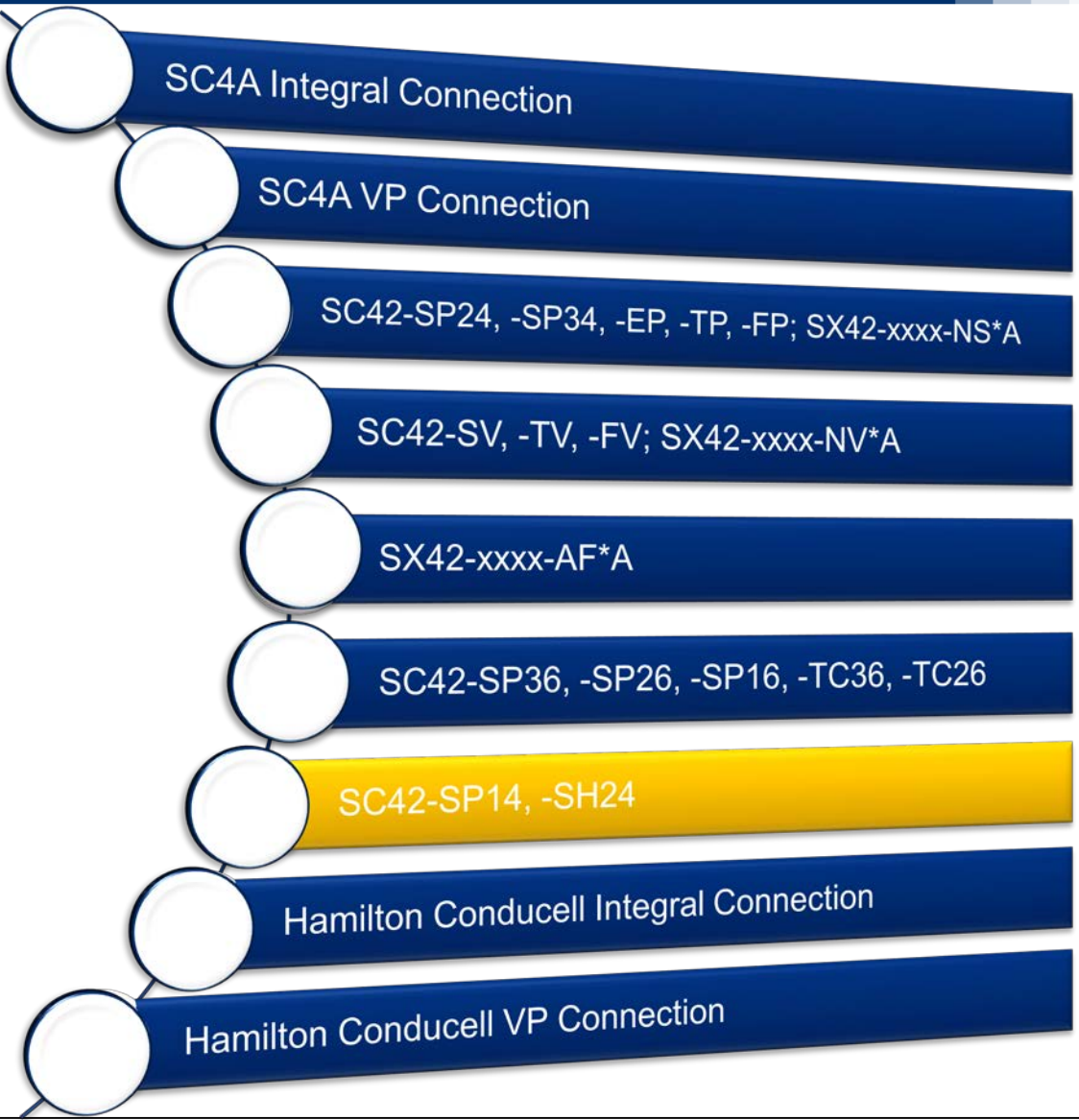
Conductivity



Wire Color	Terminal #	Function
Red/ Red	11	Temp, T1
Green/ Blue	12	Temp, T2
NONE	13	Outer Electrode, Uo
White/ White	14	Out Electrode, Io
NONE	15	Inner Electrode, Ui
Black/ Brown	16	Inner Electrode, Li

Jumper

Jumper



Colors coming from the sensor J-Box/ WF10 Color Cable; All other wires from WF10 are not used.

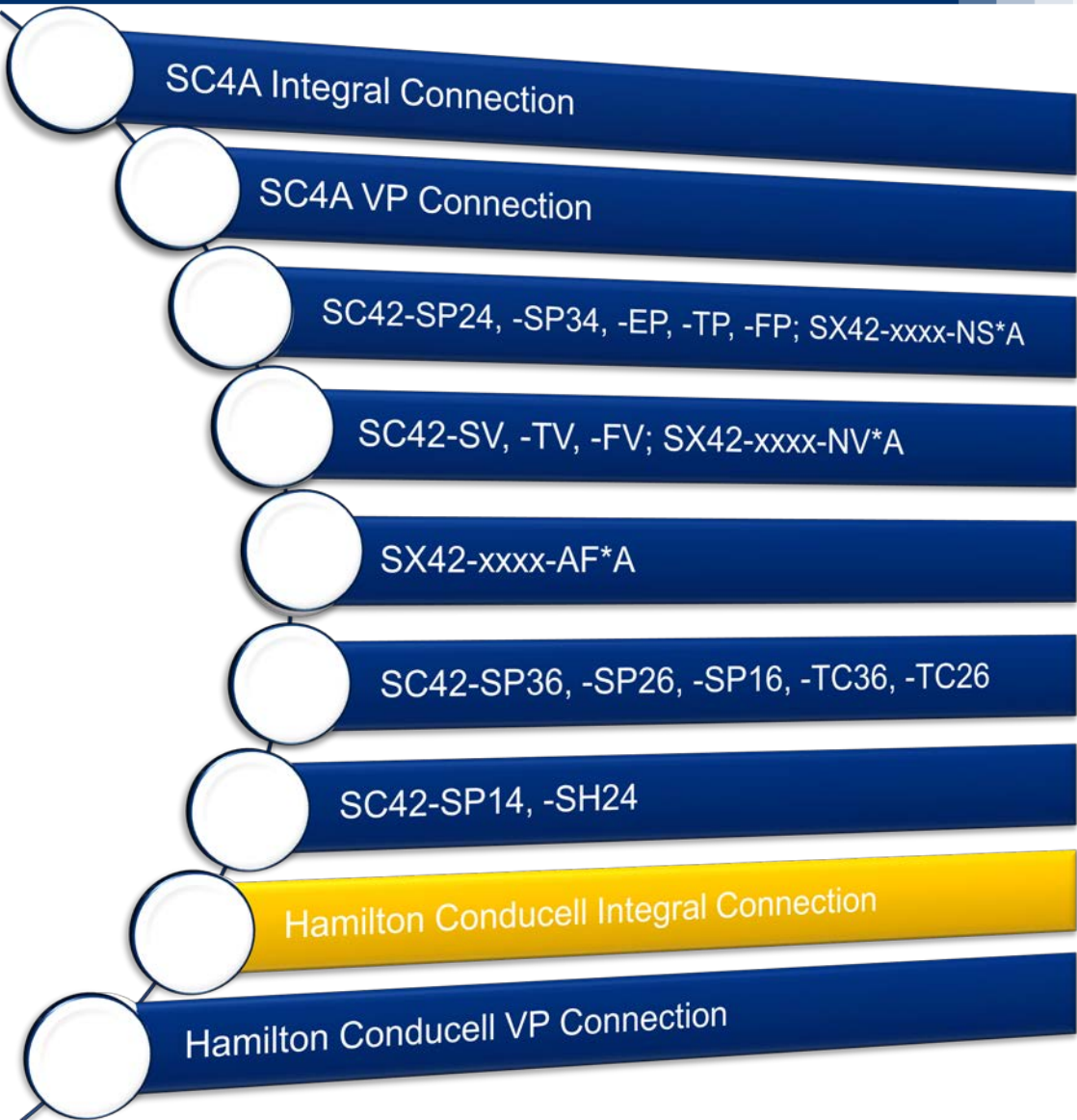


Conductivity



Wire Color		Terminal #	Function
White	Gray	11	Temp, T1
Blue		12	Temp, T2
Green		13	Outer Electrode, Uo
Pink		14	Out Electrode, Io
Brown		15	Inner Electrode, Ui
Yellow		16	Inner Electrode, Li

Colors coming from the integral cable; **Red** and **Yellow/Green Shield** are not connected

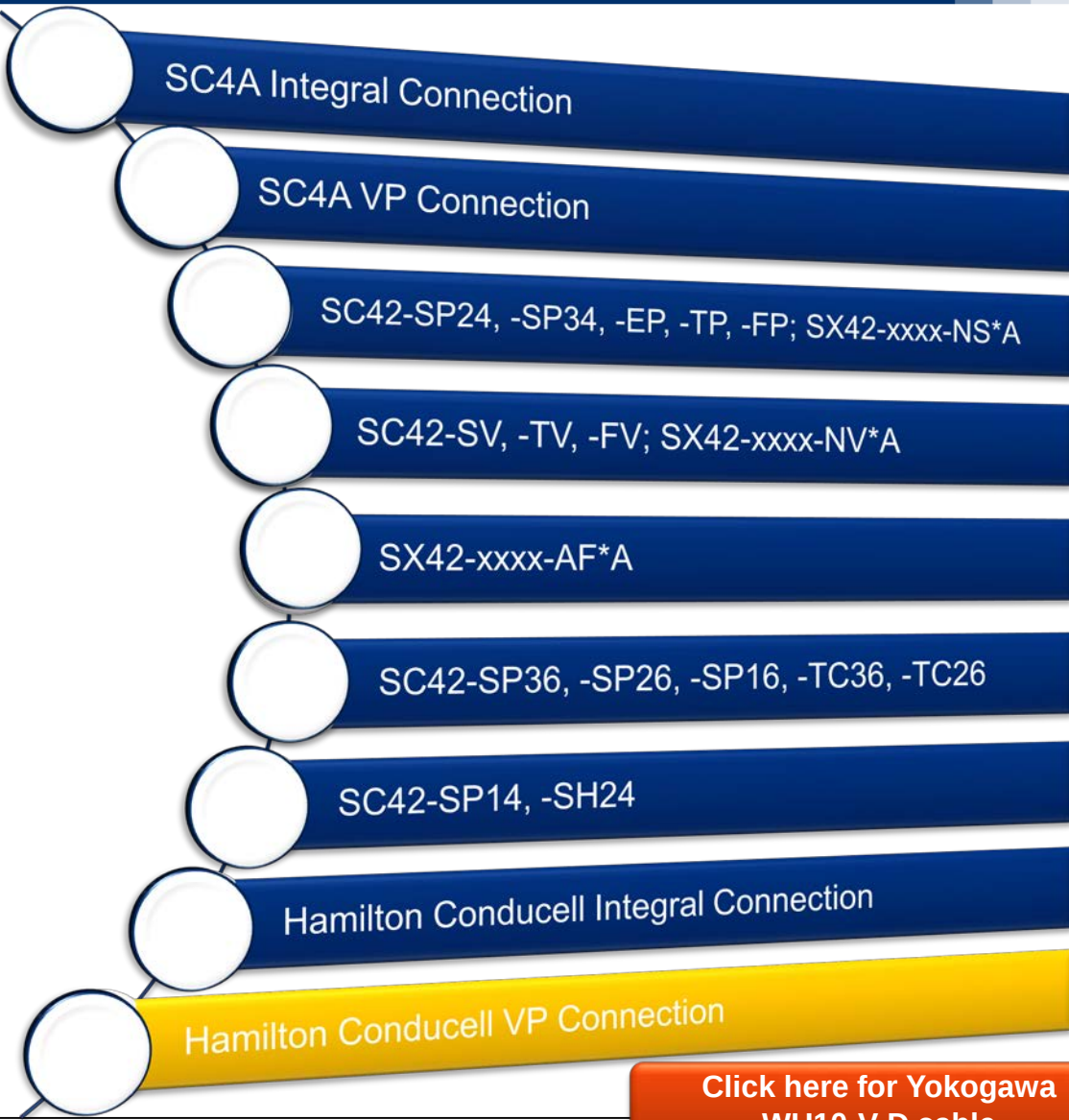


Conductivity



Wire Color	Terminal #	Function
White	11	Temp, T1
Green	12	Temp, T2
Gray	13	Outer Electrode, Uo
Blue	14	Out Electrode, Io
Black / Clear	15	Inner Electrode, Ui
Red	16	Inner Electrode, Li

Colors coming from the **Hamilton VP 6, 3551**** cable;
 Green/ Yellow not connected



[Click here for Yokogawa WU10-V-D cable](#)

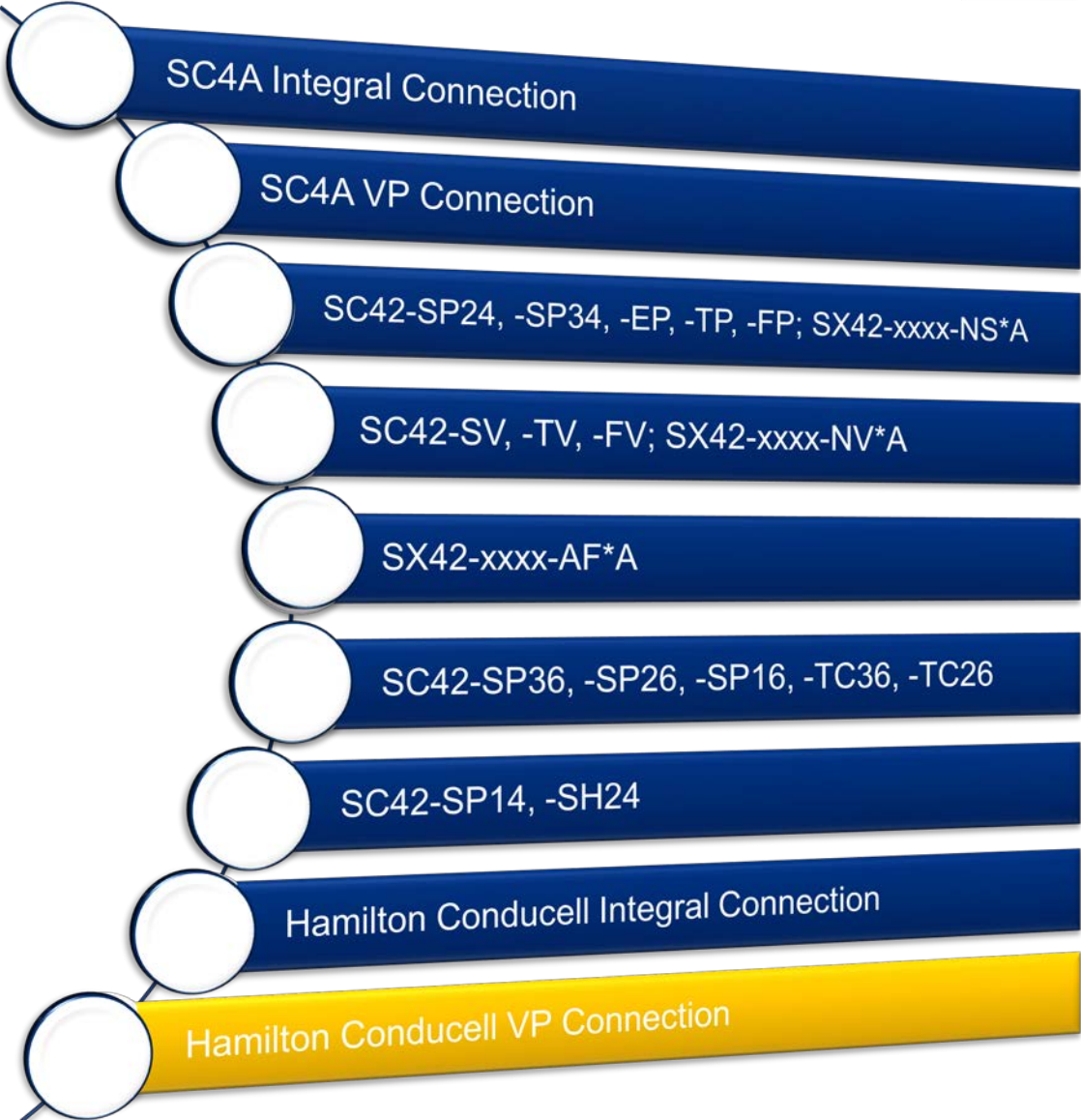


Conductivity



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Core White	13	Outer Electrode, Uo
White Shield	14	Out Electrode, Io
Core Brown	15	Inner Electrode, Ui
Shield Brown	16	Inner Electrode, Li

Colors come from **YOKOGAWA WU10-V-D** Cable;
 White Core, Yellow and Green are not connected



**SELECT
YOUR
SENSOR**

DO30G

Hamilton VISIFERM

Hamilton OXYSENS

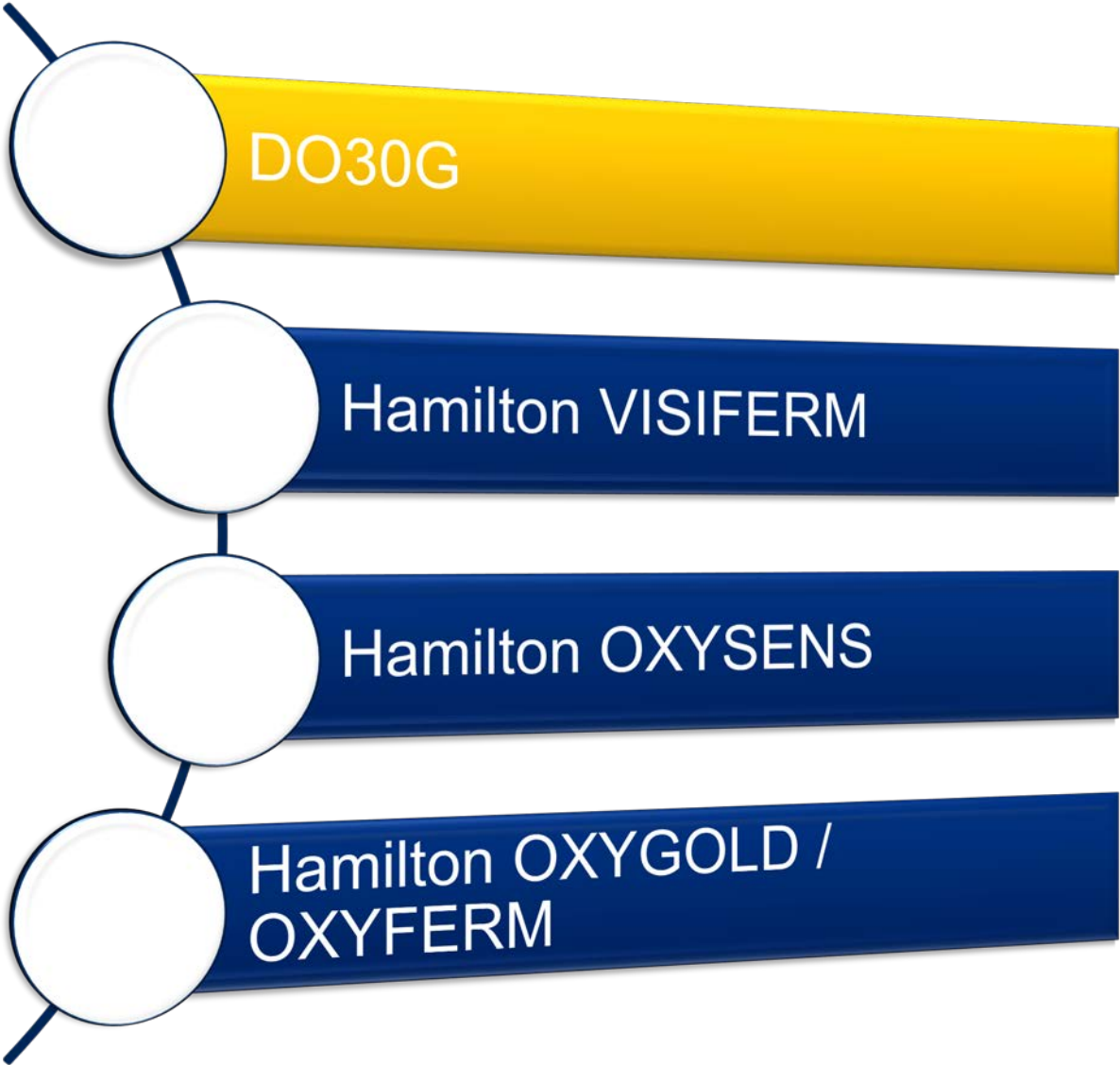
Hamilton OXYGOLD /
OXYFERM

Dissolved Oxygen



Wire Color	Terminal #	Function
Black	11	Temp, T1
White	12	Temp, T2
NONE	16	-----
Yellow	15	+ anode galvanic
Pink	13	- Cathode galvanic
Green	14	LE
NONE	17	- Cathode polarographic
NONE	18	+ anode polarographic

Colors coming from integral cable, *Brown* is not connected



Dissolved Oxygen



Using an external 24V power Supply
 Gray (pin c) is used to Power Supply +
 Blue (pin d) is used to Power Supply -

Wire Color	Terminal #	Function
White	11	Temp, T1
Green	12	Temp, T2
NONE	16	-----
NONE	15	+ anode galvanic
NONE	13	- Cathode galvanic
Green/ Yellow	14	LE
Black	17	- Cathode polarographic
Red	18	+ anode polarographic

Colors coming from **Hamilton VP 6, 3551**** cable;
 Blue and Gray not connected



[Click here for Yokogawa WU10-V-D cable](#)

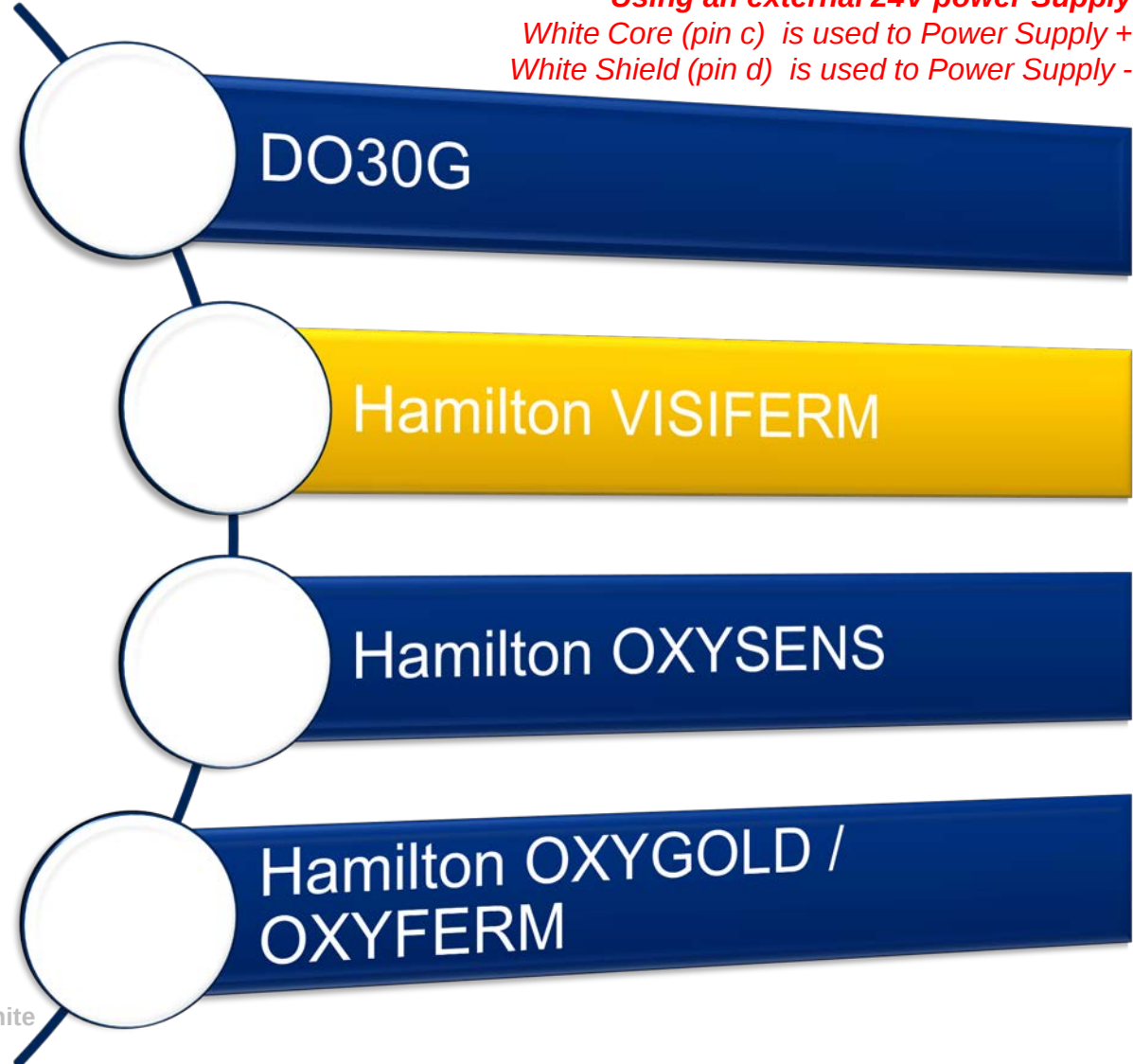


Dissolved Oxygen



Using an external 24V power Supply
 White Core (pin c) is used to Power Supply +
 White Shield (pin d) is used to Power Supply -

Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
NONE	16	-----
NONE	15	+ anode galvanic
NONE	13	- Cathode galvanic
NONE	14	LE
Brown Core	17	- Cathode polarographic
Brown Shield	18	+ anode polarographic



Colors coming from **YOKOGAWA WU10-V-D Cable**; White Core, White Shield, Yellow and Green not connected

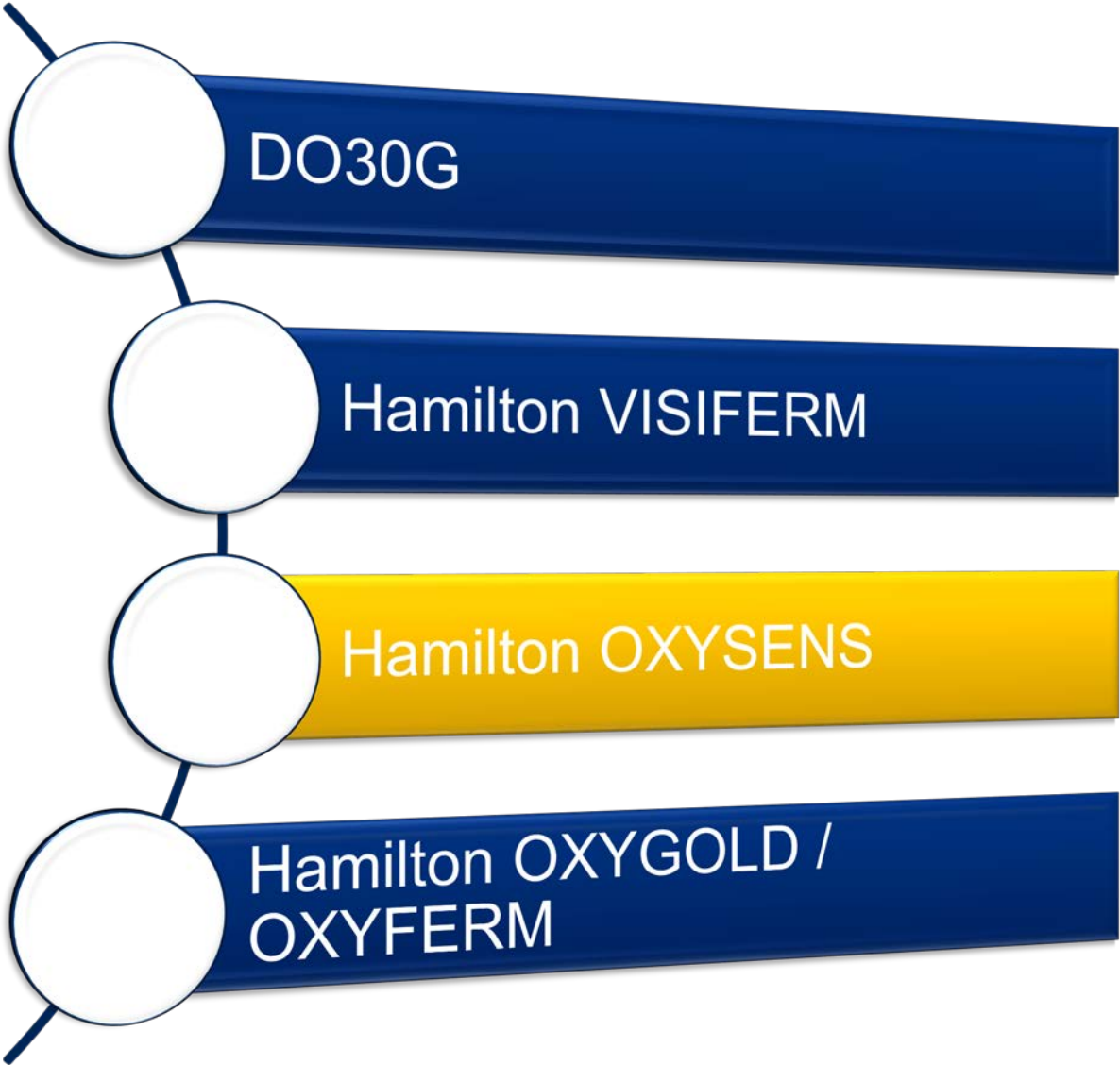


Dissolved Oxygen



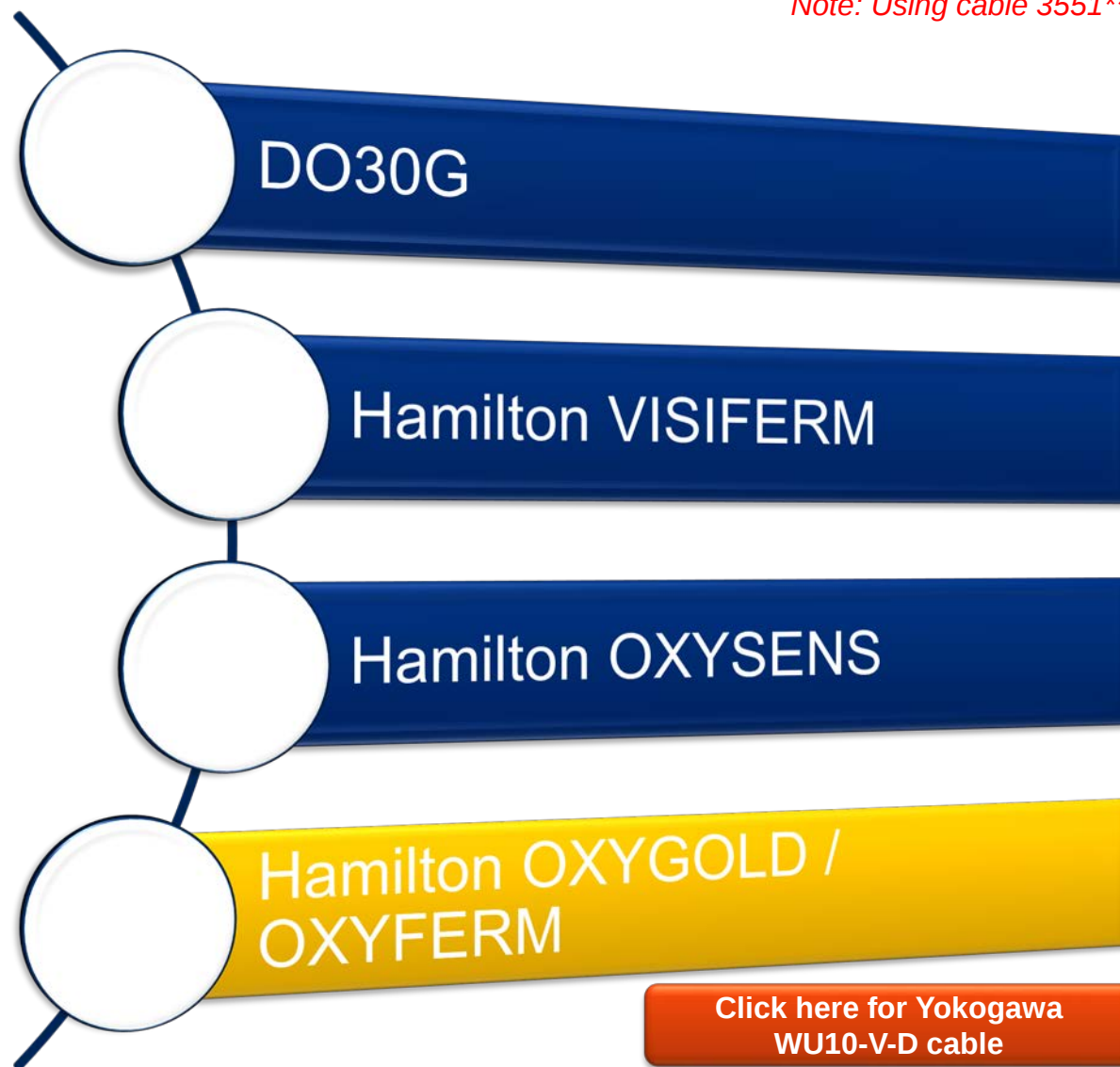
Wire Color	Terminal #	Function
Yellow	11	Temp, T1
Blue	12	Temp, T2
NONE	16	-----
NONE	15	+ anode galvanic
NONE	13	- Cathode galvanic
Black/ Shield	14	LE
Clear/ Core	17	- Cathode polarographic
Brown	18	+ anode polarographic

Colors coming from integral cable



Dissolved Oxygen

Note: Using cable 3551**



Wire Color	Terminal #	Function
White	11	Temp, T1
Green	12	Temp, T2
NONE	16	-----
NONE	15	+ anode galvanic
NONE	13	- Cathode galvanic
Green/ Yellow	14	LE
Black	17	- Cathode polarographic
Red	18	+ anode polarographic

Colors coming from **Hamilton V6 Cable; 3551****,
Blue and Gray not connected

[Click here for Yokogawa WU10-V-D cable](#)

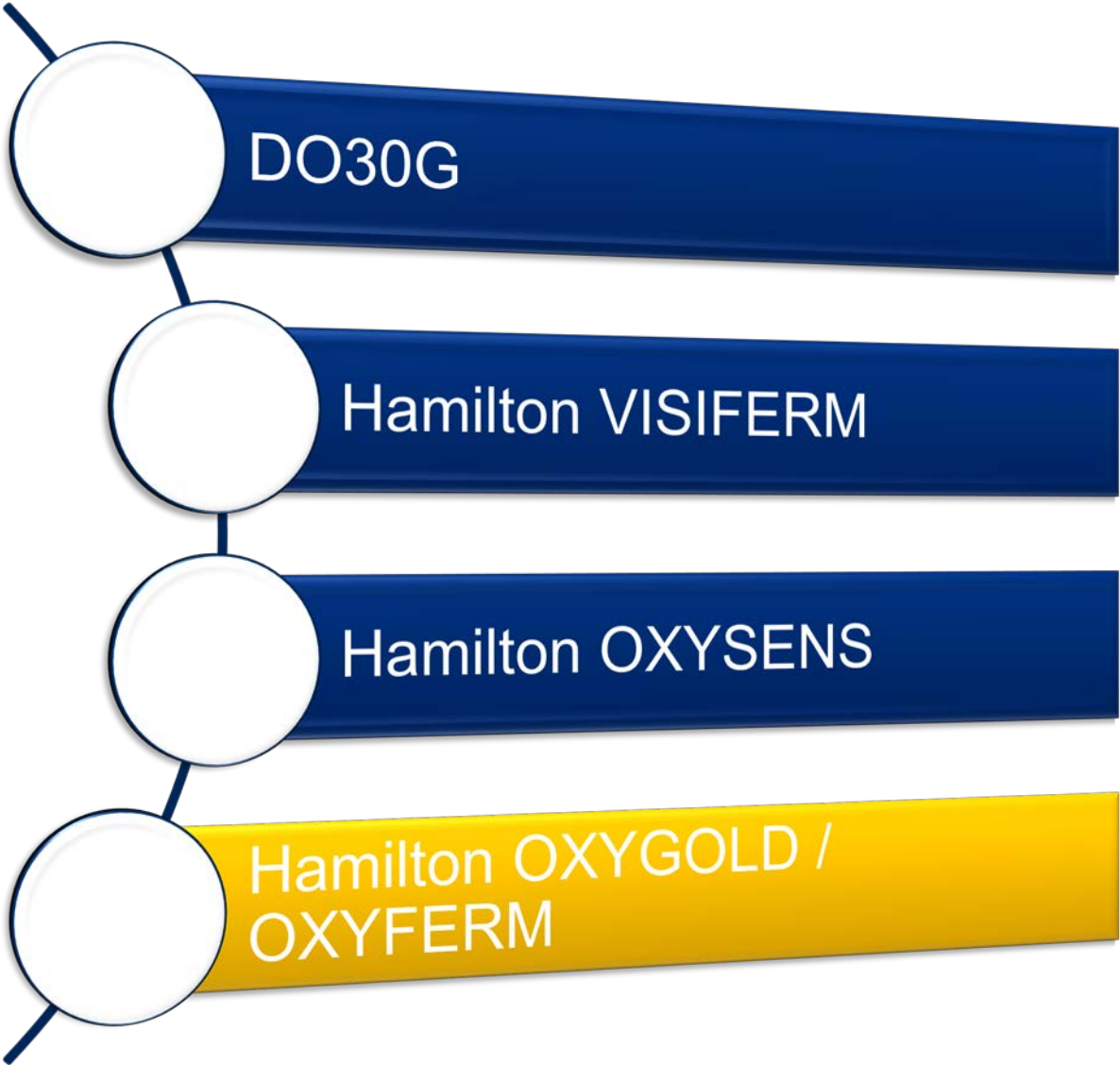


Dissolved Oxygen



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
NONE	16	-----
NONE	15	+ anode galvanic
NONE	13	- Cathode galvanic
White Shield	14	LE
Brown Core	17	- Cathode polarographic
Brown Shield	18	+ anode polarographic

Colors coming from **YOKOGAWA WU10-V-D Cable**;
 White Core, Yellow, and Green not connected



**SELECT
YOUR
SENSOR**

FU20/FU24 Integral Connection

FU20/FU24 VP Connection

FU20-FTS/MTS VP Connection

SC25V VP Connection

PH87 / PH97

PH18 with WU18 Connection

PH21 VS Connection

12mm Individual Sensors
(i.e. SM21/SR20/SM60/SM29/SM23/SC21/SC29)

HAMILTON

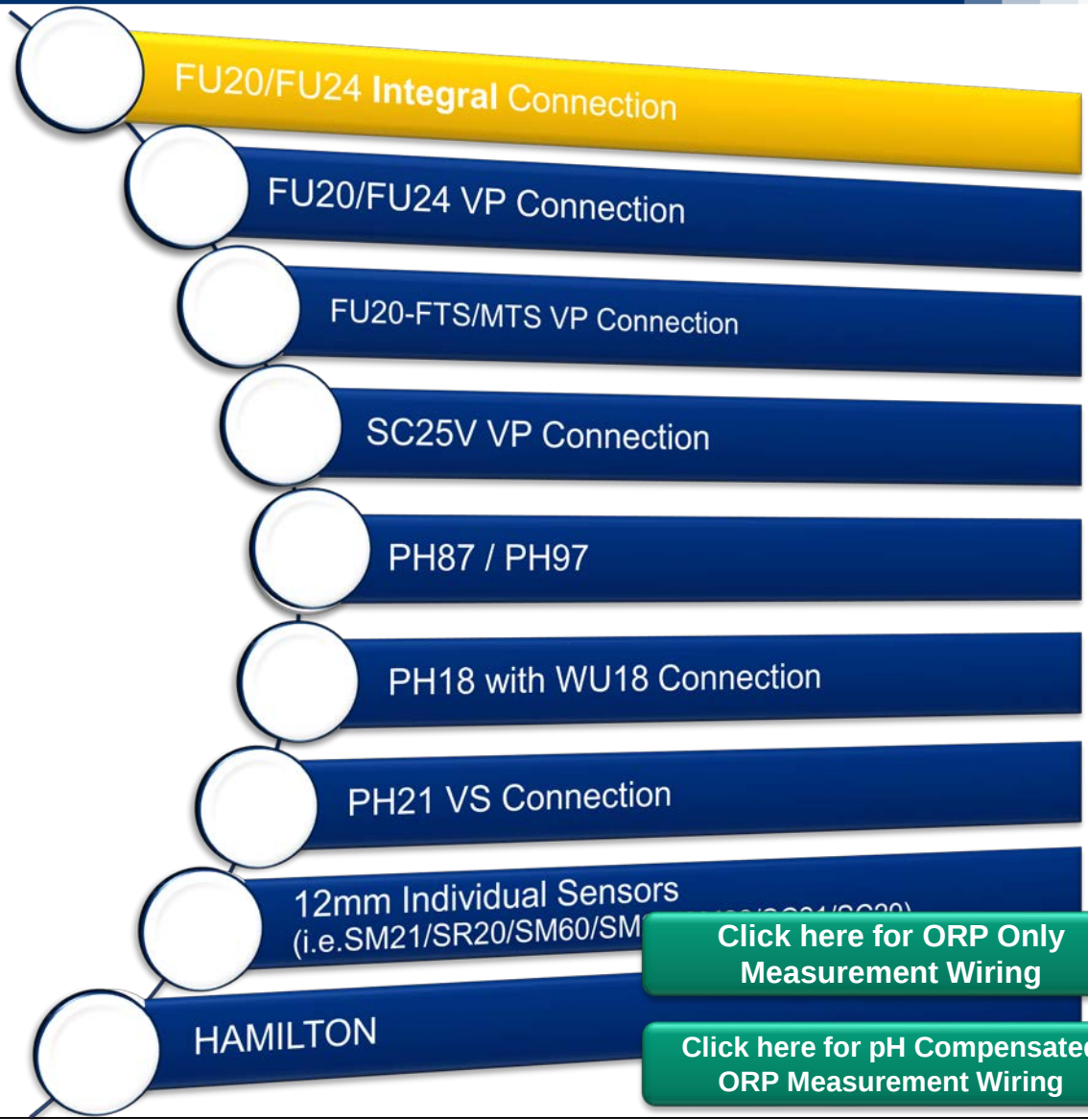


Wiring for pH ONLY or pH & ORP Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
----	18	----
Black	13	Reference
----	17	Shield
----	19	----
White	15	Measure
Brown (Shield)	16	Shield

Colors coming from *integral cable*



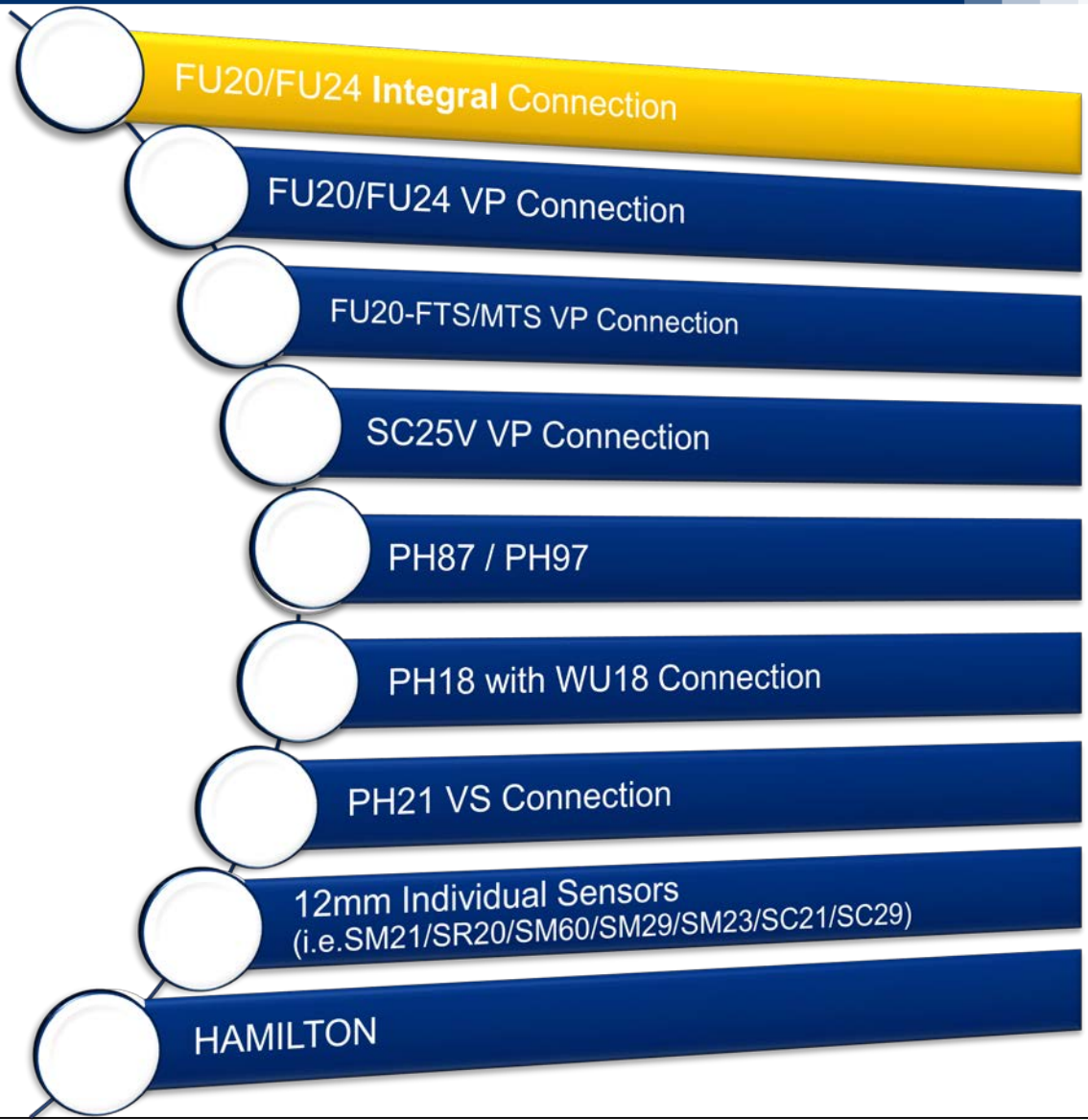
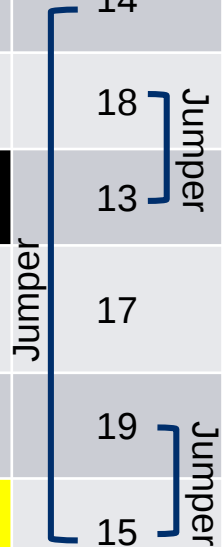
[Click here for ORP Only Measurement Wiring](#)

[Click here for pH Compensated ORP Measurement Wiring](#)



Wiring for ORP ONLY Measurement

Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
(Jumper to 15)	14	LE
----	18	----
Black	13	Reference
----	17	Shield
----	19	----
Yellow	15	Measure
----	16	Shield



Colors coming from **integral Cable**;
 Brown Shield and White not connected



Wiring for pH Compensated ORP Measurement

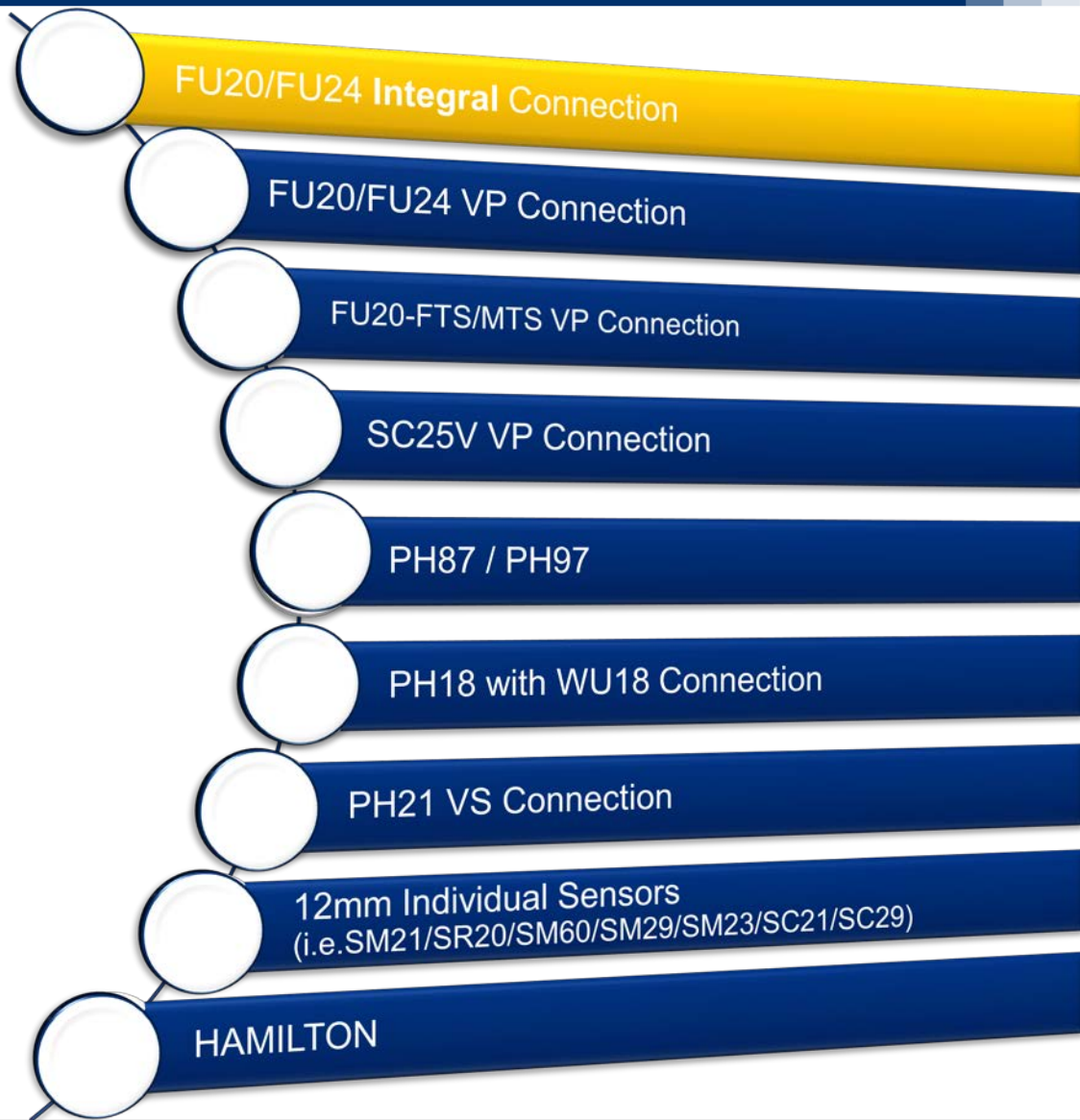


Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
(Jumper to 15)	14	LE
----	18	----
White	13	Reference
Brown (Shield)	17	Shield
----	19	----
Yellow	15	Measure
----	16	Shield

Jumper

Jumper

Colors coming from **integral Cable**; **Black** not connected

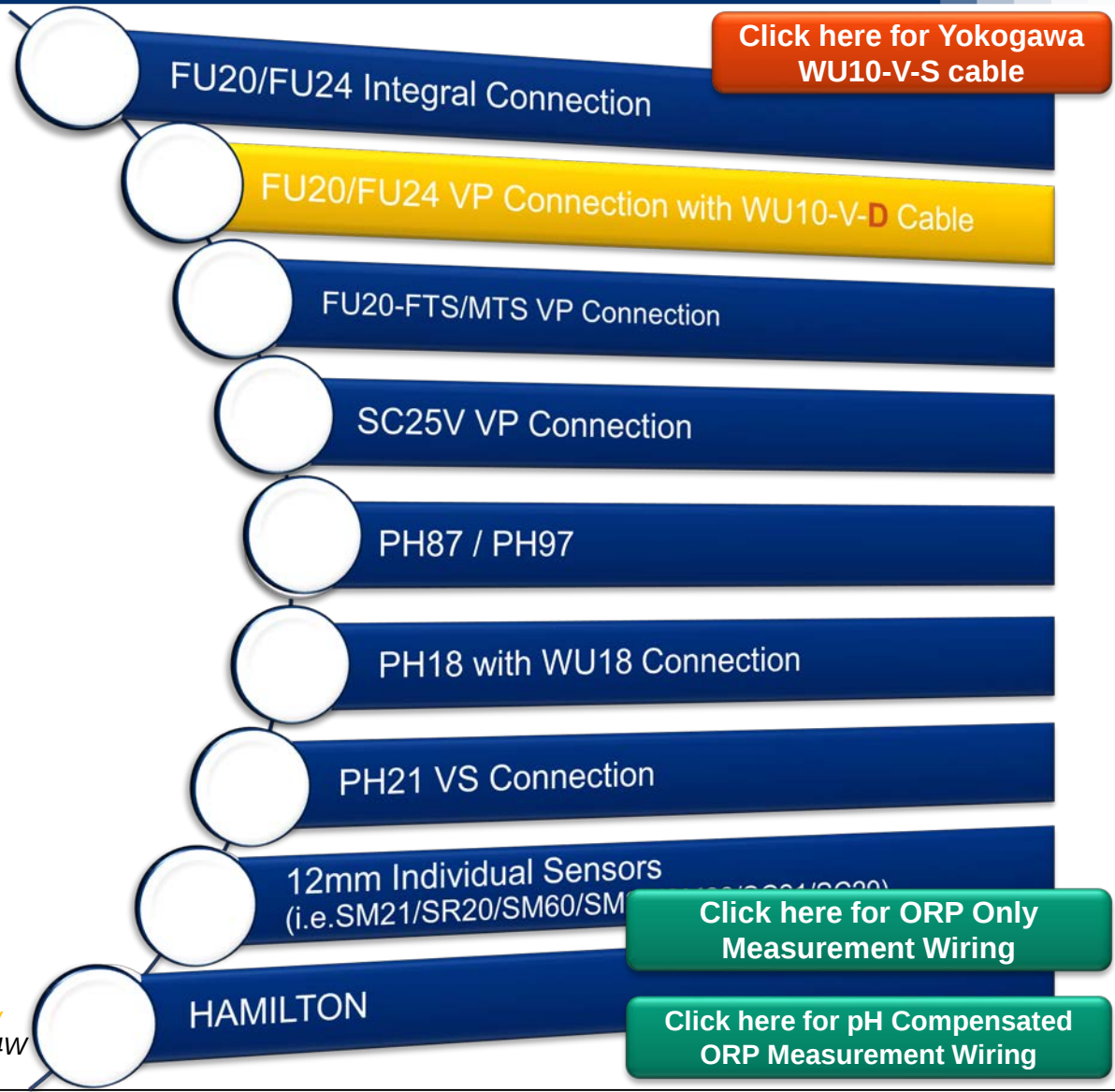


Wiring for pH ONLY or pH & ORP Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
White (Shield)	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Brown (Core)	15	Measure
White (Core)	16	Shield

Jumper



Click here for Yokogawa WU10-V-S cable

Click here for ORP Only Measurement Wiring

Click here for pH Compensated ORP Measurement Wiring

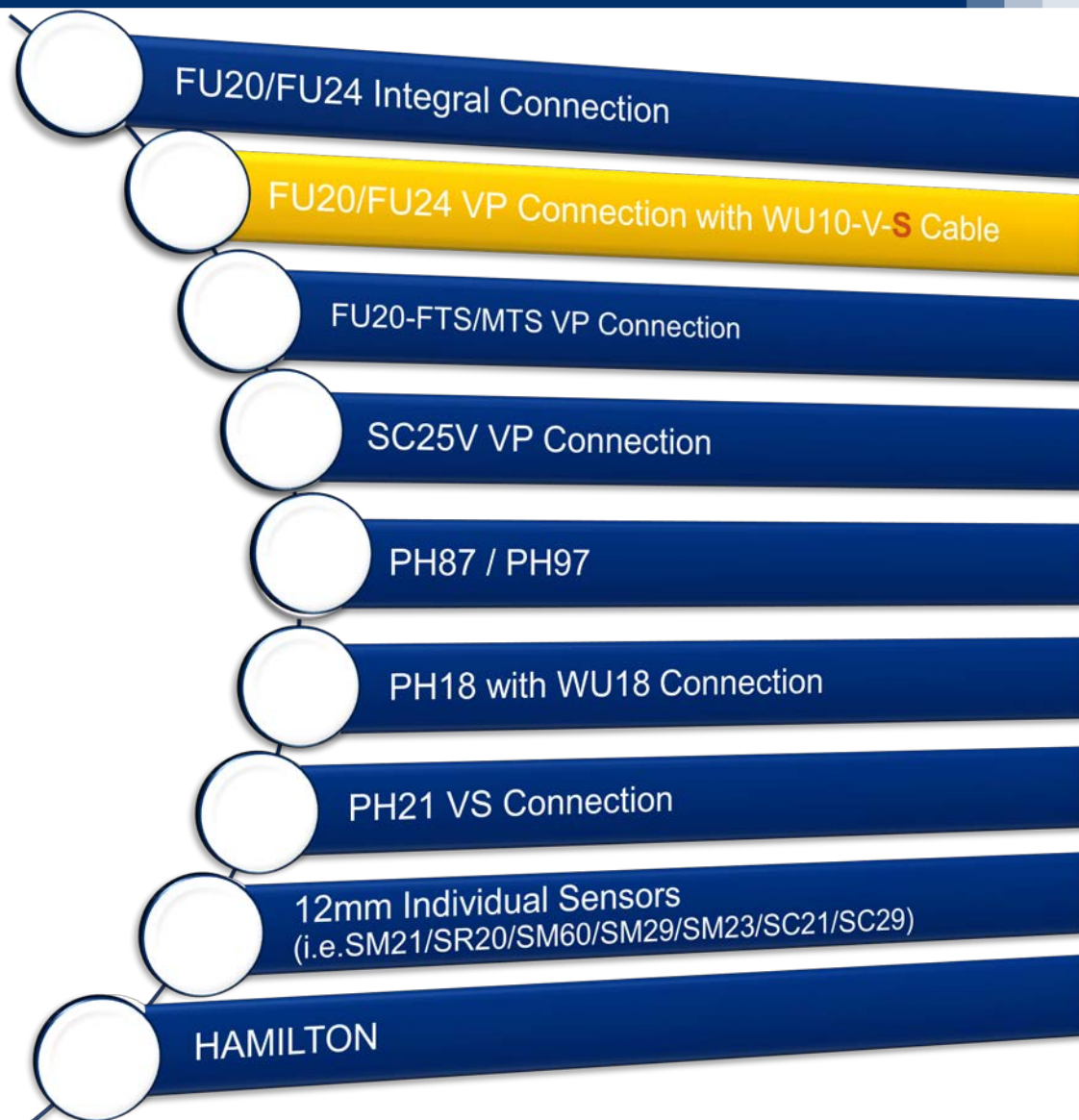
Colors coming from YOKOGAWA WU10-V-D Cable; Yellow and Green and Black Drain Shield not connected, unless 4W then connect to terminal 63

pH ONLY can be read when using WU10-V-S Cable



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Brown Core	15	Measure
Black	16	Shield

Jumper



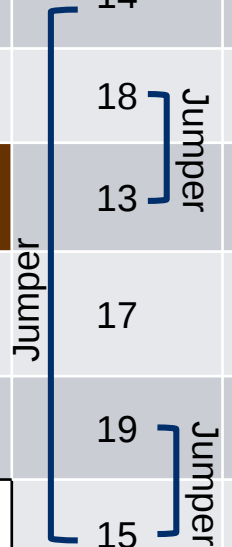
Colors coming from YOKOGAWA WU10-V-S Cable



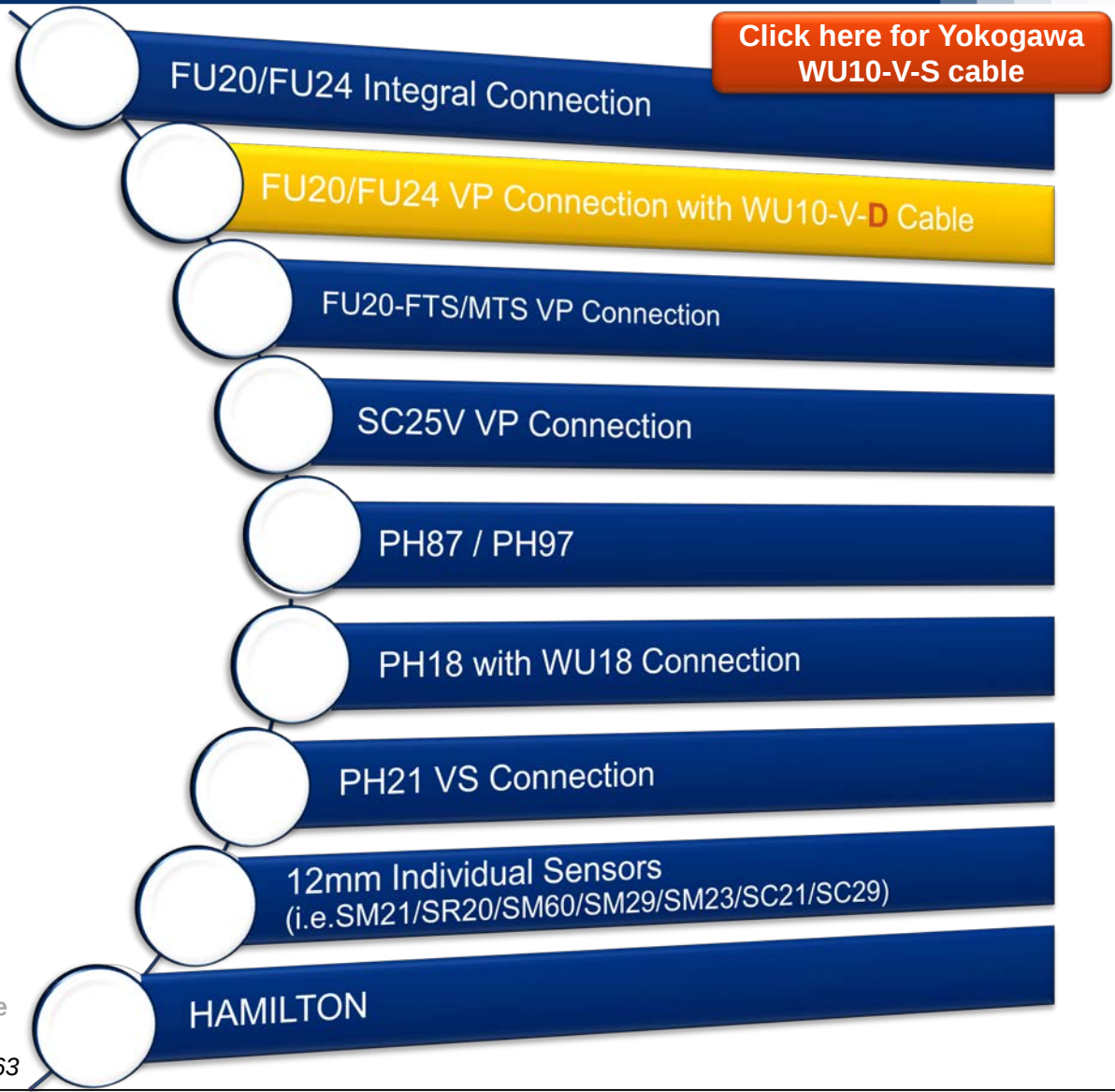
Wiring for ORP ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
(Jumper to 15)	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
White (Shield)	15	Measure
----	16	Shield

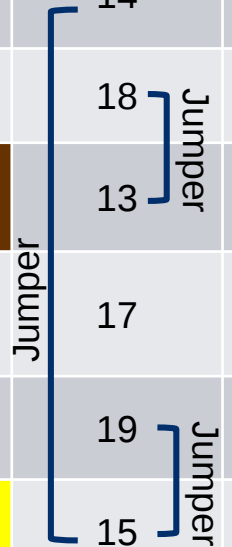


Colors coming from **YOKOGAWA WU10-V-D Cable**; White Core, Brown (core), Yellow, and Green and Black Drain Shield not connected, unless 4W then connect to terminal 63

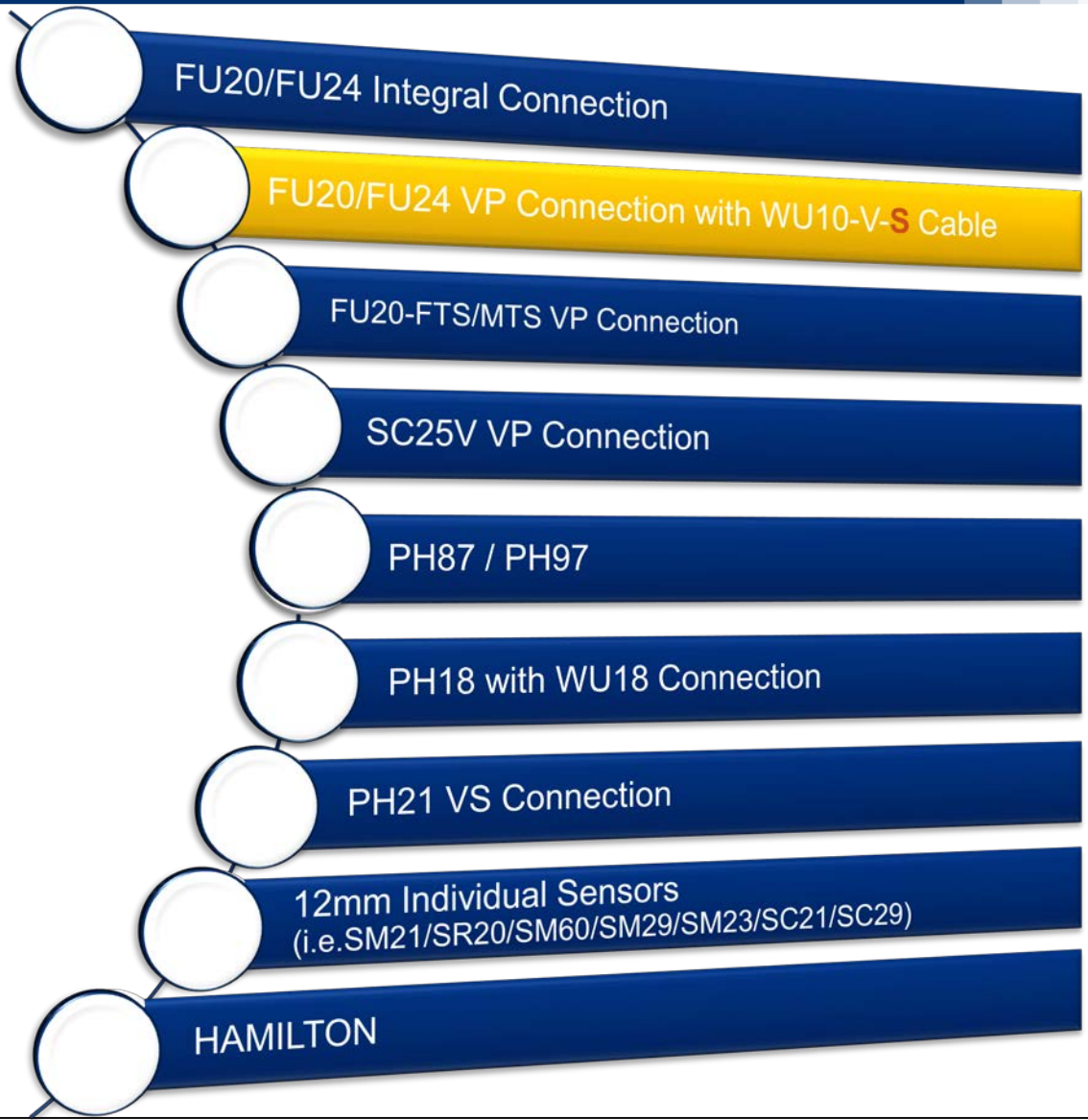


Wiring for ORP ONLY Measurement

Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
(Jumper to 15)	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Yellow	15	Measure
----	16	Shield



Colors coming from **YOKOGAWA WU10-V-S Cable**;
Brown (core) and Black are not connected



Wiring for pH Compensated ORP Measurement



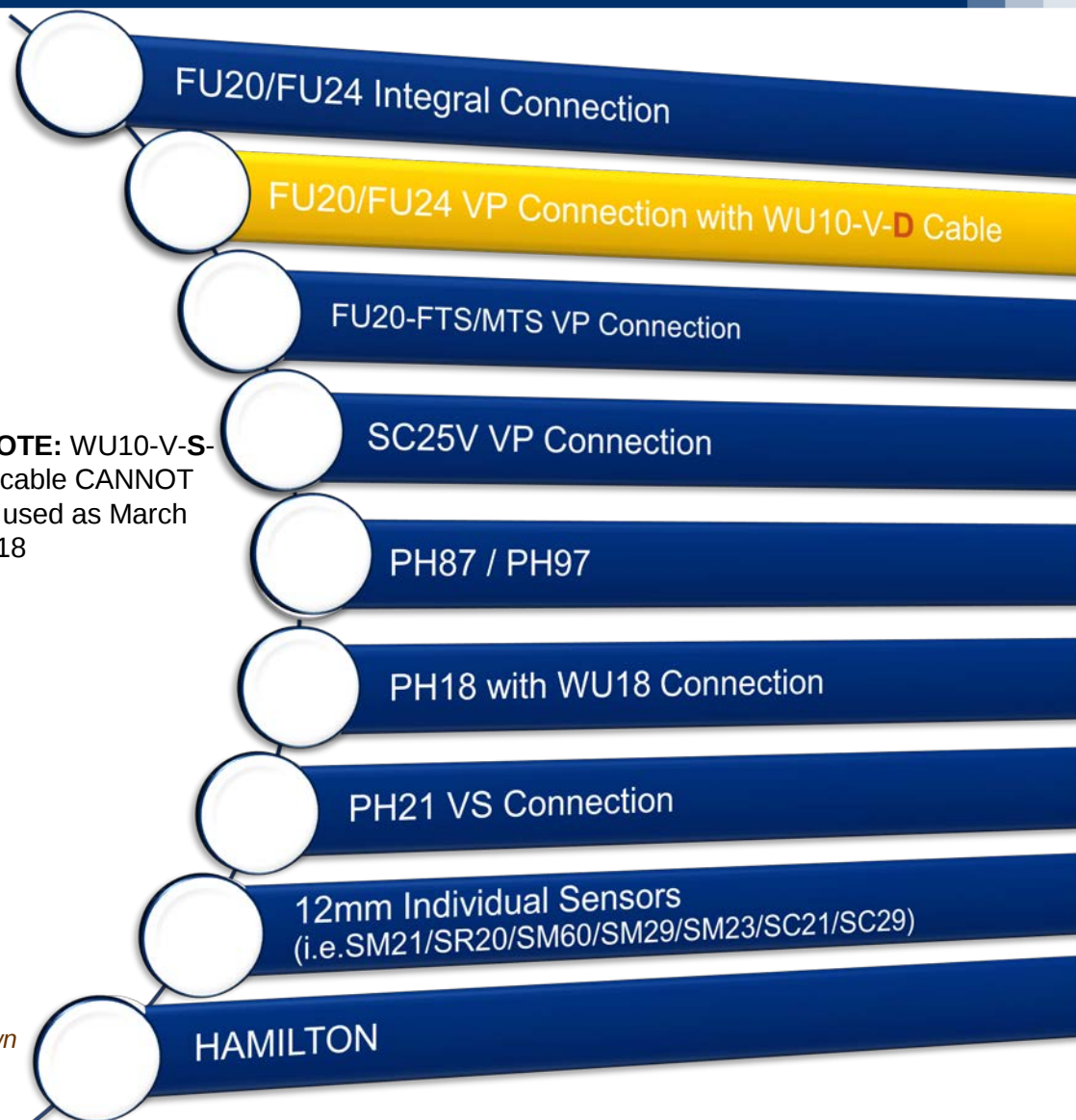
Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
(Jumper to 15)	14	LE
----	18	----
Brown (Core)	13	Reference
White (Core)	17	Shield
----	19	----
White (Shield)	15	Measure
----	16	Shield

Jumper

Jumper

Jumper

***NOTE:** WU10-V-S-xx cable CANNOT be used as March 2018



Colors coming from **YOKOGAWA WU10-V-D Cable**; **Brown** (shield), **Yellow**, and **Green** and **Black Drain Shield** not connected, unless 4W then connect to terminal 63

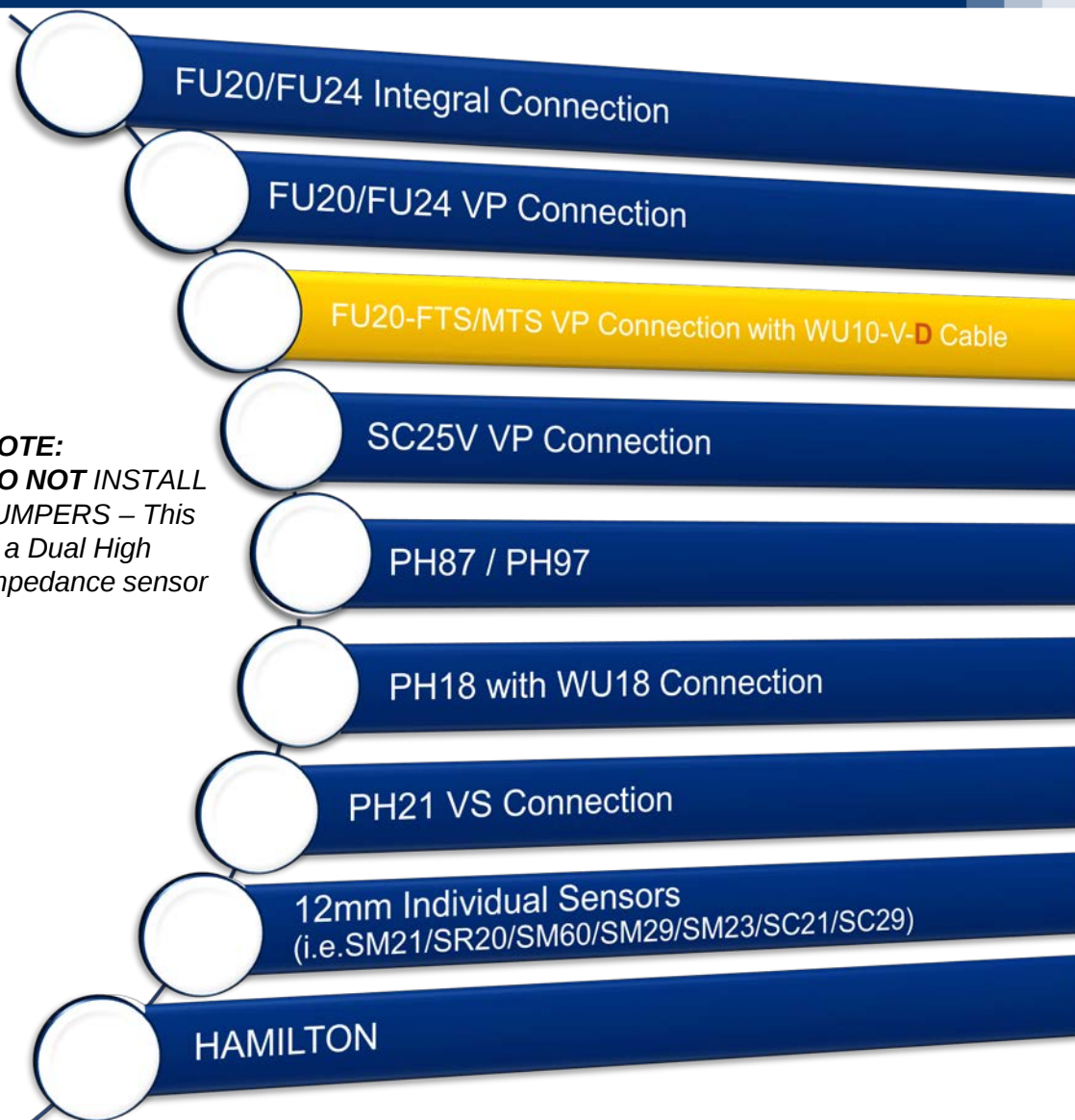


Wiring for Cation Differential pH ONLY Measurement

Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
----	18	----
White Core	13	Reference
White (Shield)	17	Shield
----	19	----
Brown Core	15	Measure
Brown (Shield)	16	Shield

Colors coming from YOKOGAWA WU10-V-D Cable;
Green and Green Shield not connected

NOTE:
DO NOT INSTALL JUMPERS – This is a Dual High Impedance sensor

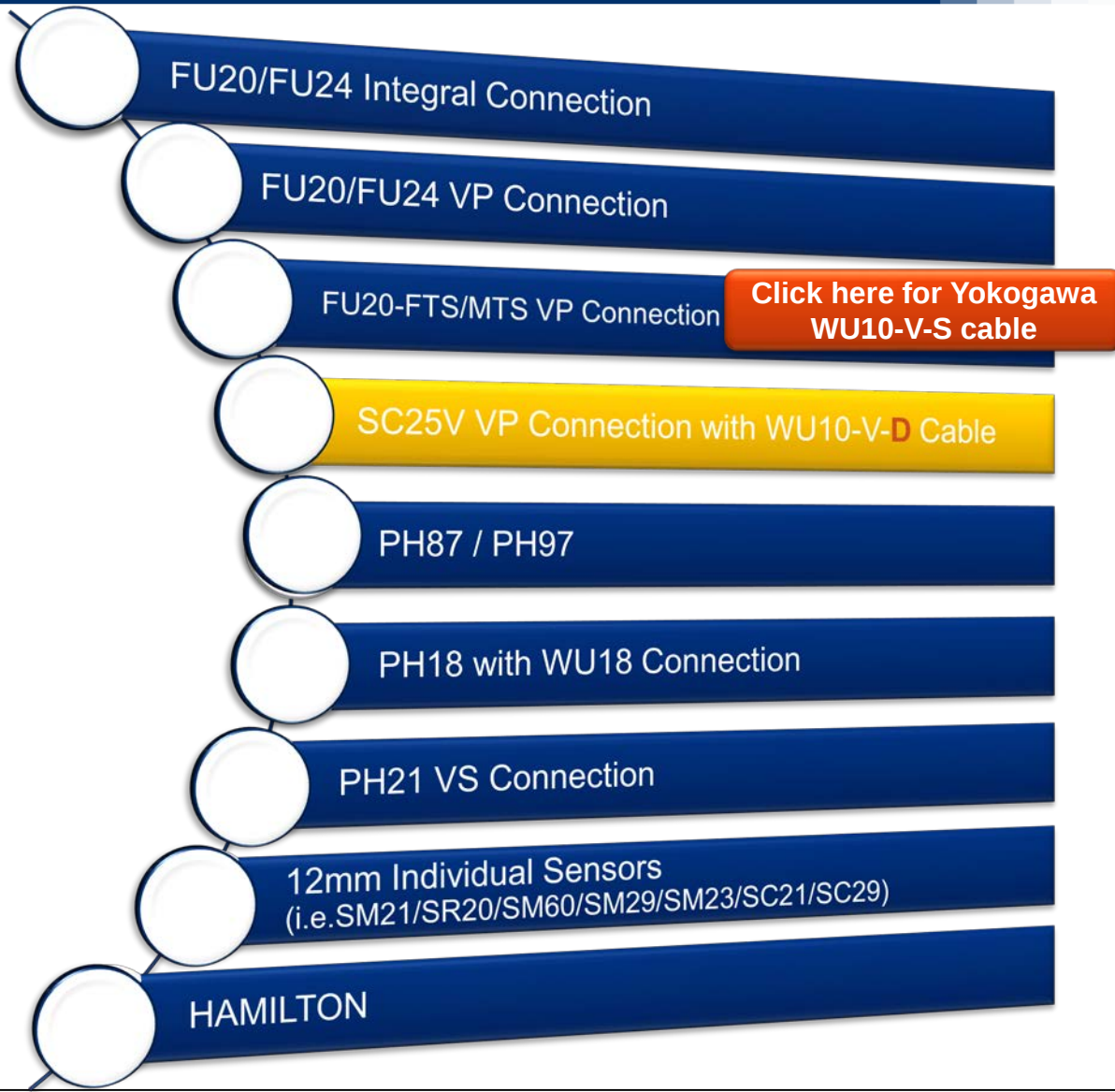


Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
White Shield	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Brown Core	15	Measure
White Core	16	Shield

Colors coming from **YOKOGAWA WU10-V-D Cable**;
 Yellow, Green and Green Shield not connected

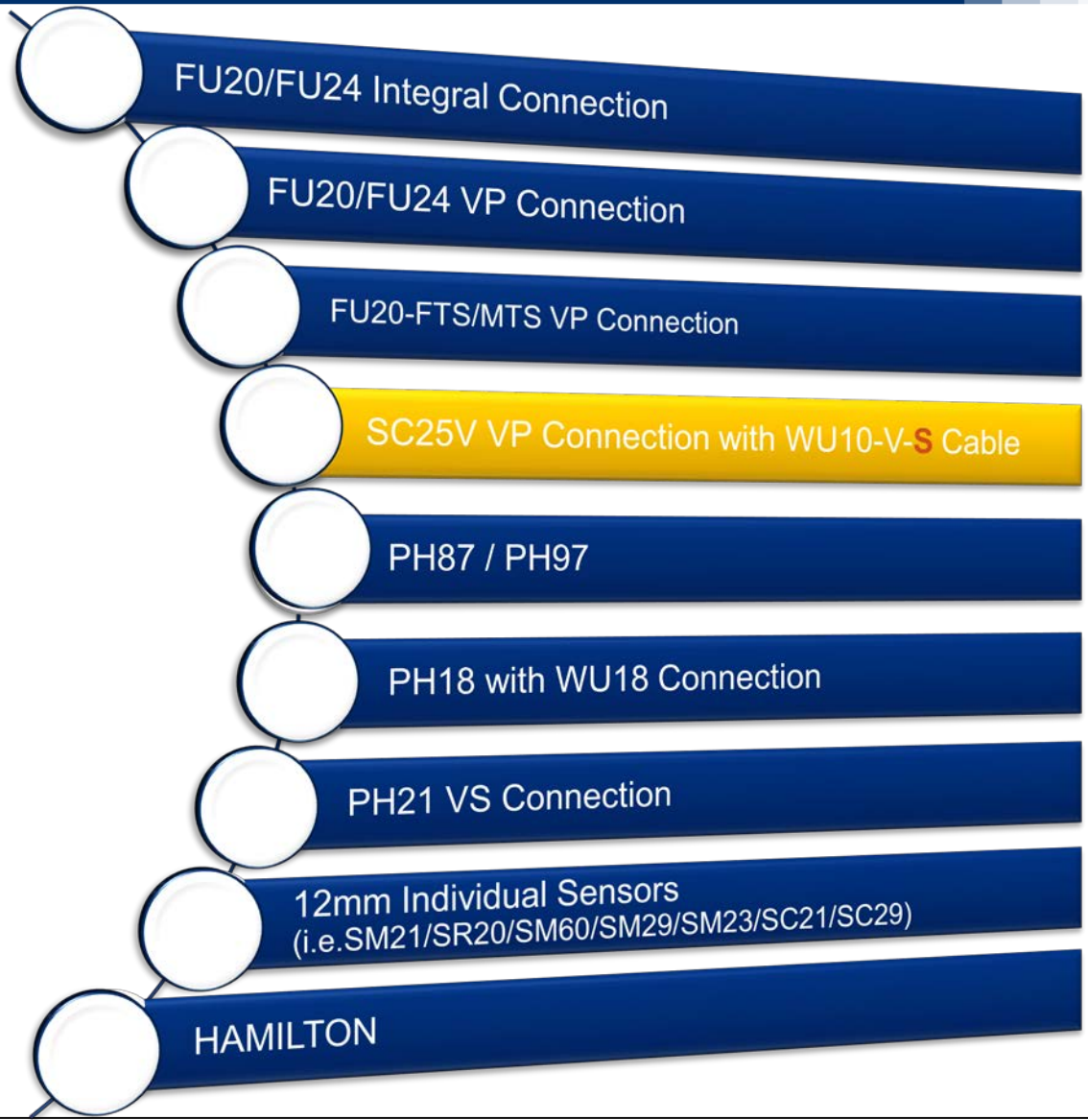


Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Brown Core	15	Measure
Black	16	Shield

Colors coming from **YOKOGAWA WU10-V-S Cable**



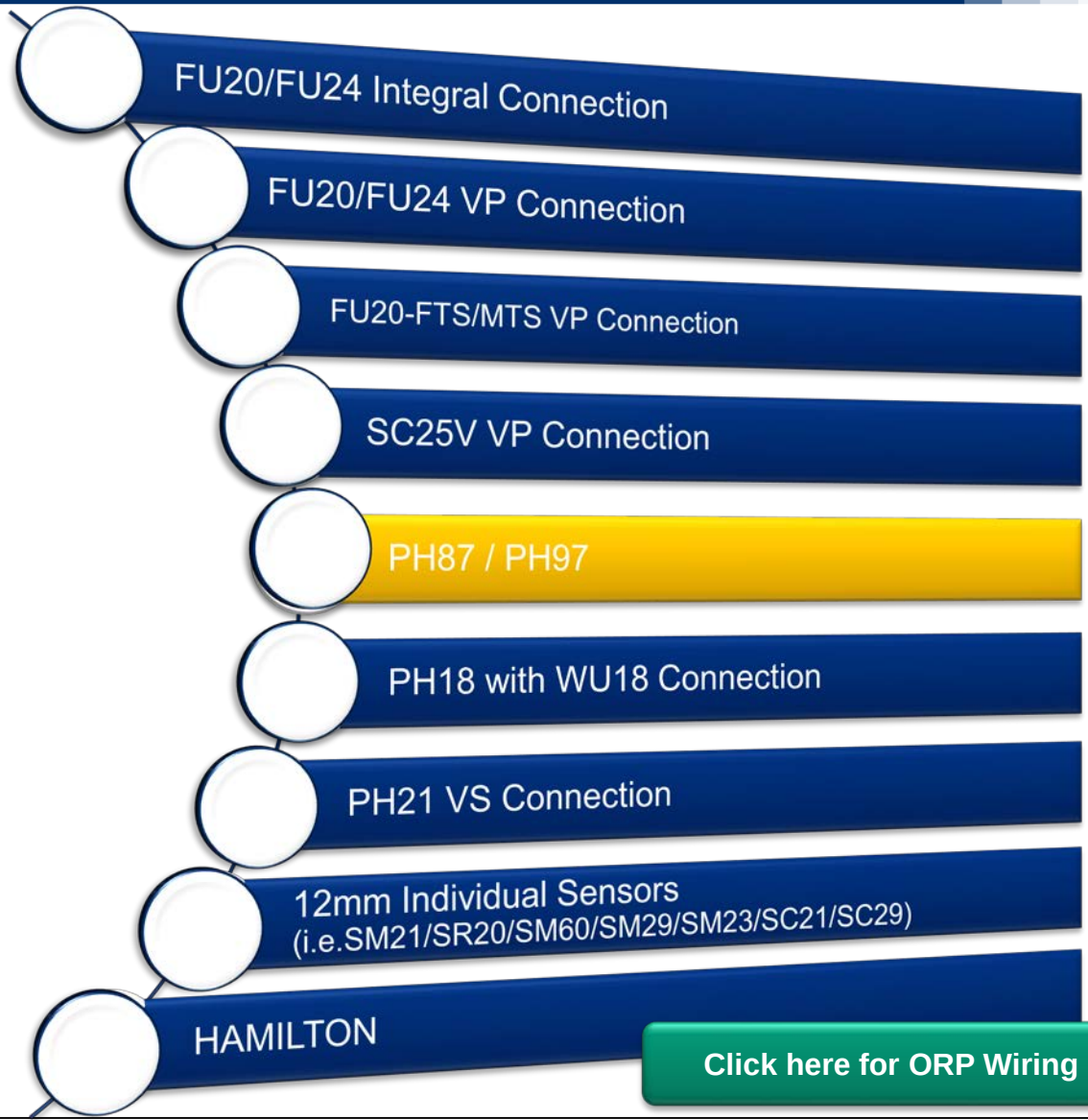
Wiring for pH ONLY Measurement



Sensor Wire	WF10 Wire Color	Terminal #	Function
Red	Red	11	Temp, T1
Blue	Blue	12	Temp, T2
Green	Black	14	LE
----	----	18	----
Black (shield)	Brown	13	Reference
----	----	17	Shield
----	----	19	----
White	White	15	Measure
----	----	16	Shield

Jumper

Colors coming from the sensor need to be wired into the Terminal block inside the Junction box of the PH87. WF10 can be sued to connect the sensor to the analyzer Color Cable. All other wires from WF10 not shown are not used



[Click here for ORP Wiring](#)

Wiring for ORP ONLY Measurement

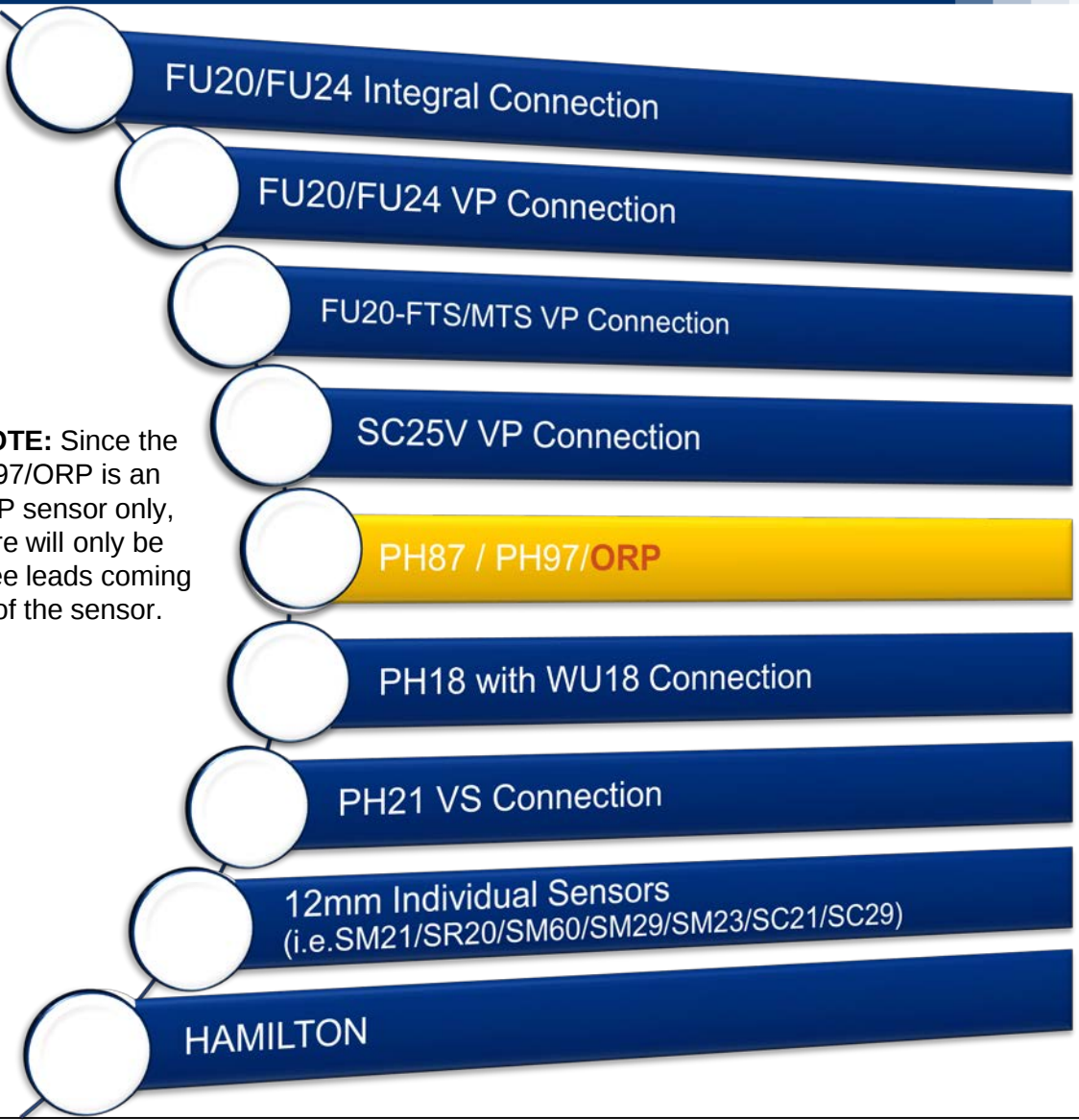


Sensor Wire	WF10 Wire Color	Terminal #	Function
----	----	11	Temp, T1
----	----	12	Temp, T2
Green	Black	14	LE
----	----	18	----
Black (shield)	Brown	13	Reference
----	----	17	Shield
----	----	19	----
White	White	15	Measure
----	----	16	Shield

Jumper

Jumper

***NOTE:** Since the PH97/ORP is an ORP sensor only, there will only be three leads coming off of the sensor.



Colors coming from the sensor need to be wired into the Terminal block inside the Junction box of the PH87. WF10 can be sued to connect the sensor to the analyzer Color Cable. All other wires from WF10 not shown are not used

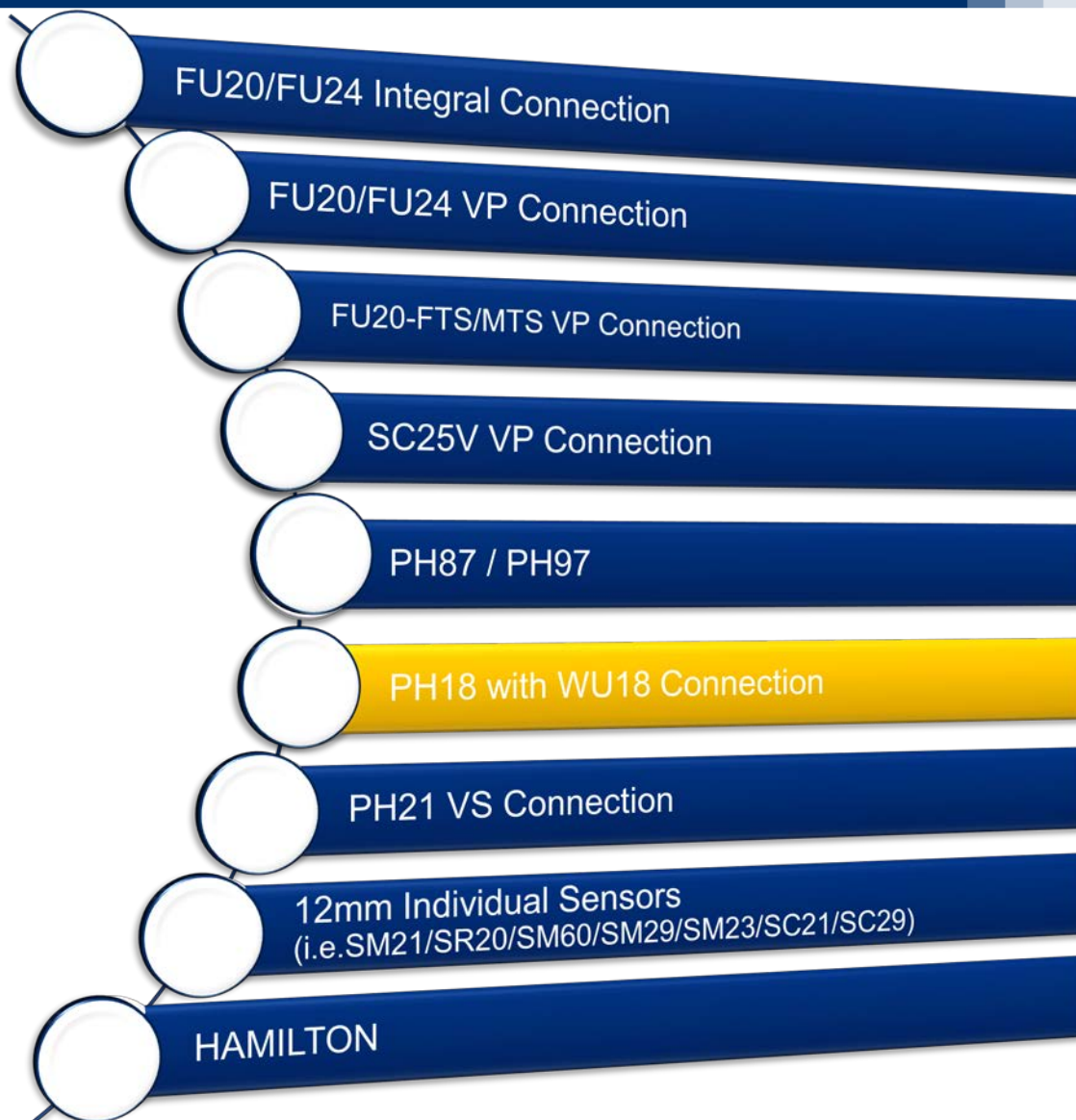


Wiring for Differential pH ONLY Measurement



Wire Color	Terminal #	Function
Brown	11	Temp, T1
Black Green	12	Temp, T2
Blue	14	LE
-----	18	-----
Brown (Clear top)	13	Reference
Orange	17	Shield
-----	19	----
White	15	Measure
Purple	16	Shield

DO NOT INSTALL JUMPERS – This is a Dual High Impedance sensor

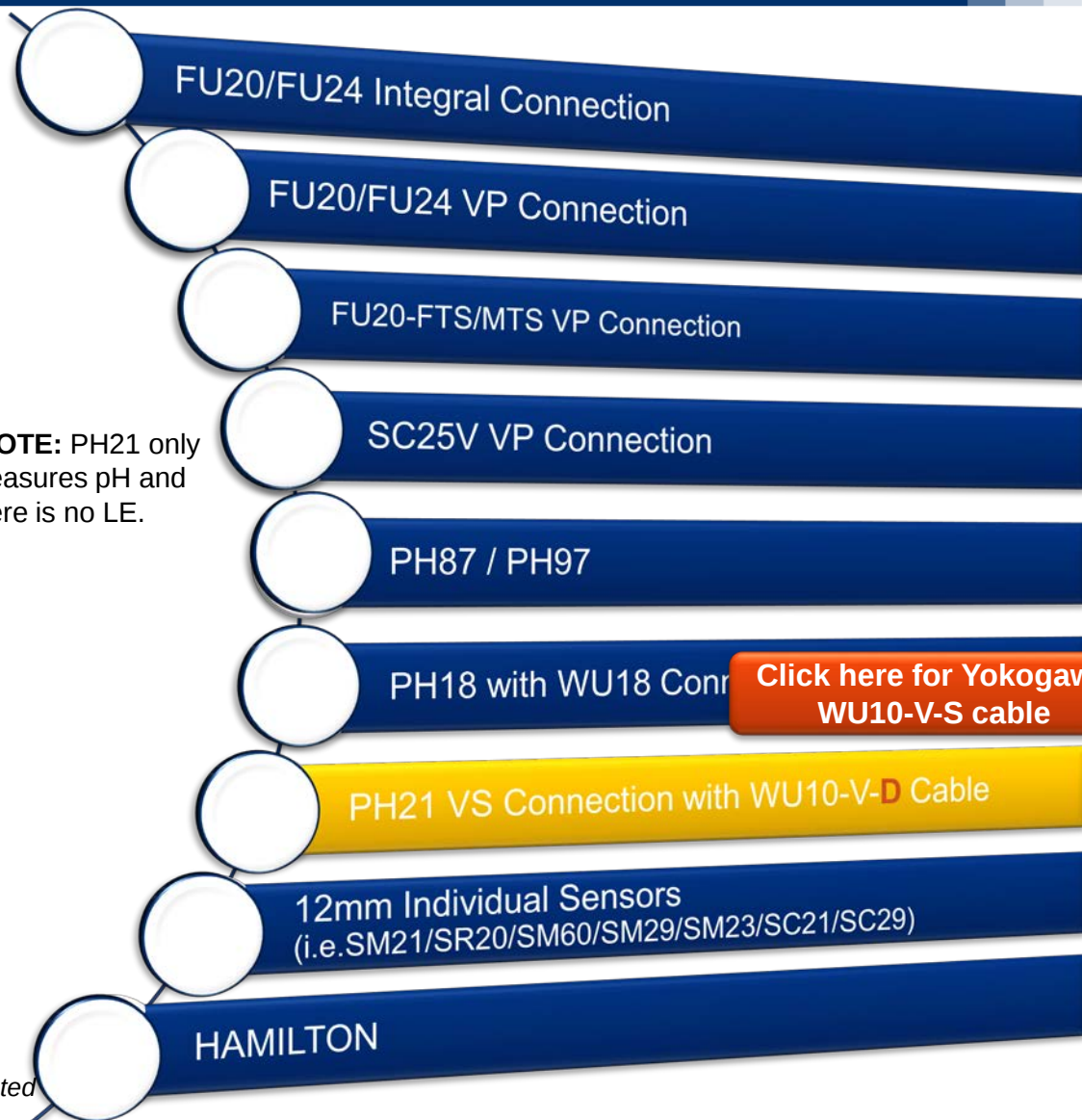


Wiring for pH ONLY Measurement

Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
----	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Brown (Core)	15	Measure
White (Core)	16	Shield

Jumper

***NOTE:** PH21 only measures pH and there is no LE.



[Click here for Yokogawa WU10-V-S cable](#)

Colors coming from **YOKOGAWA WU10-V-D Cable**; White shield, **Yellow** and **Green** and **Green Shield** are not connected



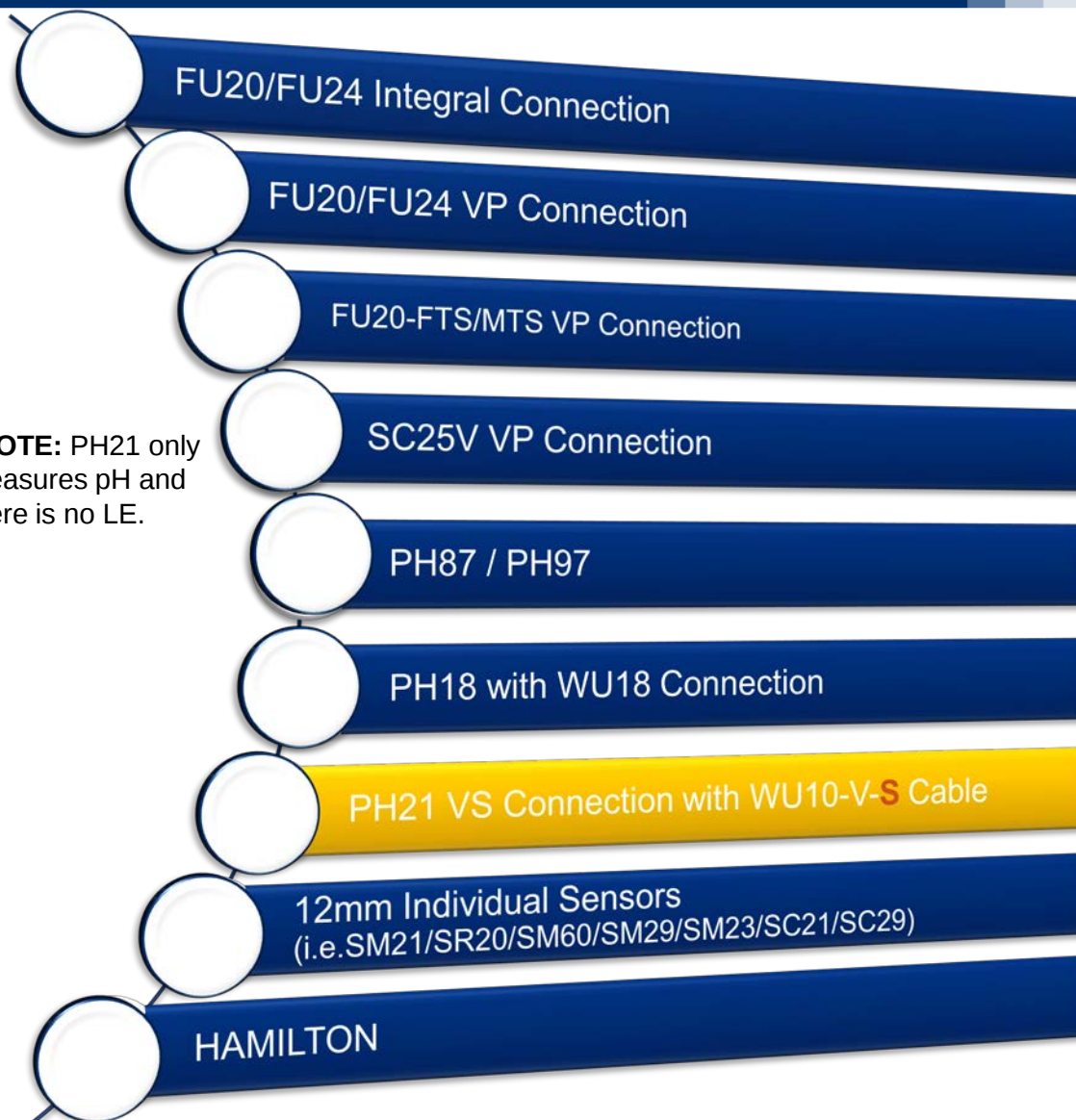
Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
----	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Brown Core	15	Measure
Black	16	Shield

Jumper

***NOTE:** PH21 only measures pH and there is no LE.



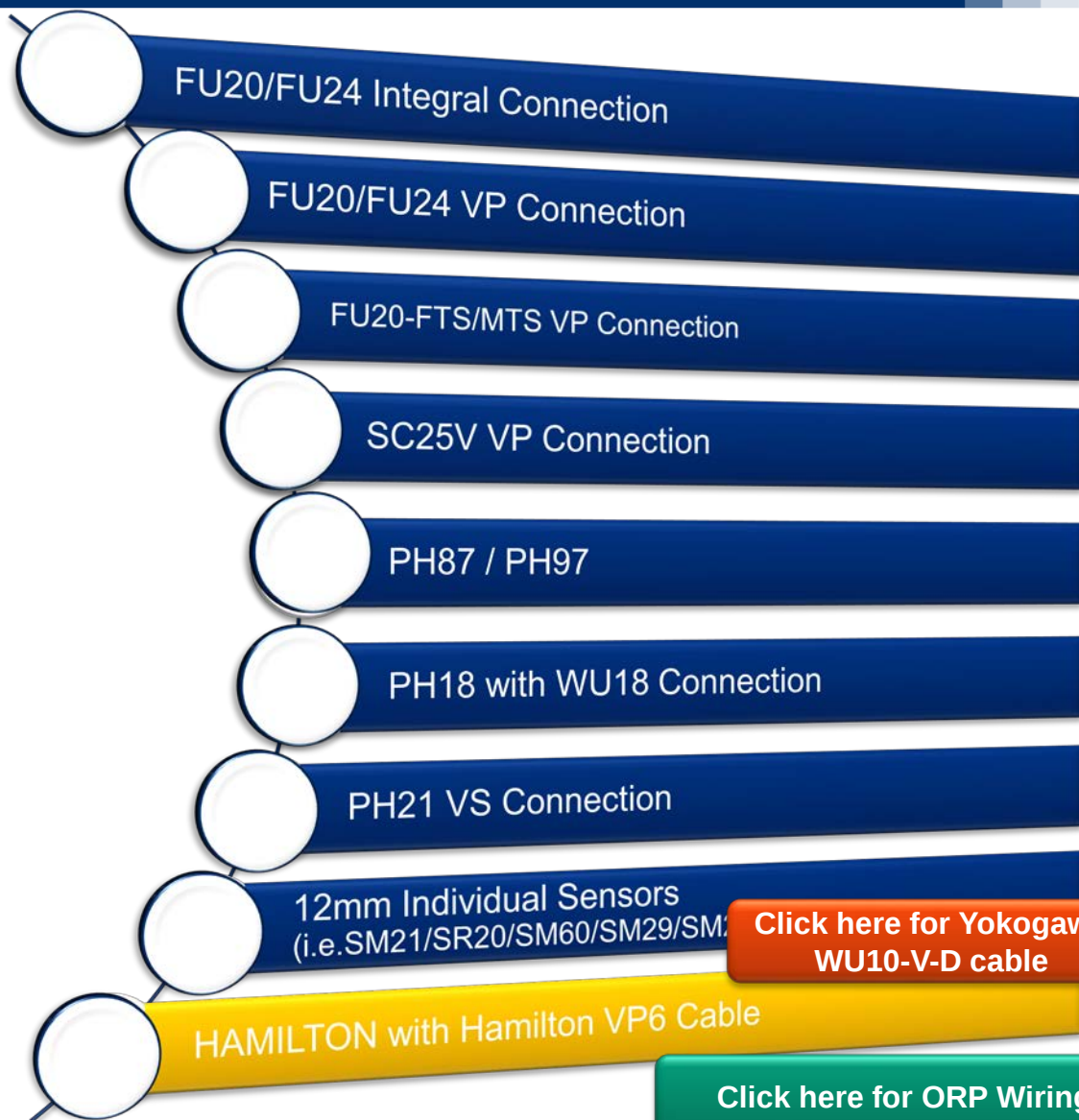
Colors coming from **YOKOGAWA WU10-V-S Cable**;
Yellow is not connected



Wiring for pH ONLY Measurement

Wire Color	Terminal #	Function
White	11	Temp, T1
Green	12	Temp, T2
Blue	14	LE
----	18	----
Red	13	Reference
----	17	Shield
----	19	----
Black / Clear	15	Measure
----	16	Shield

Colors coming from the **Hamilton VP 6, 3551**** cable;
 Green/ Yellow and Gray not connected



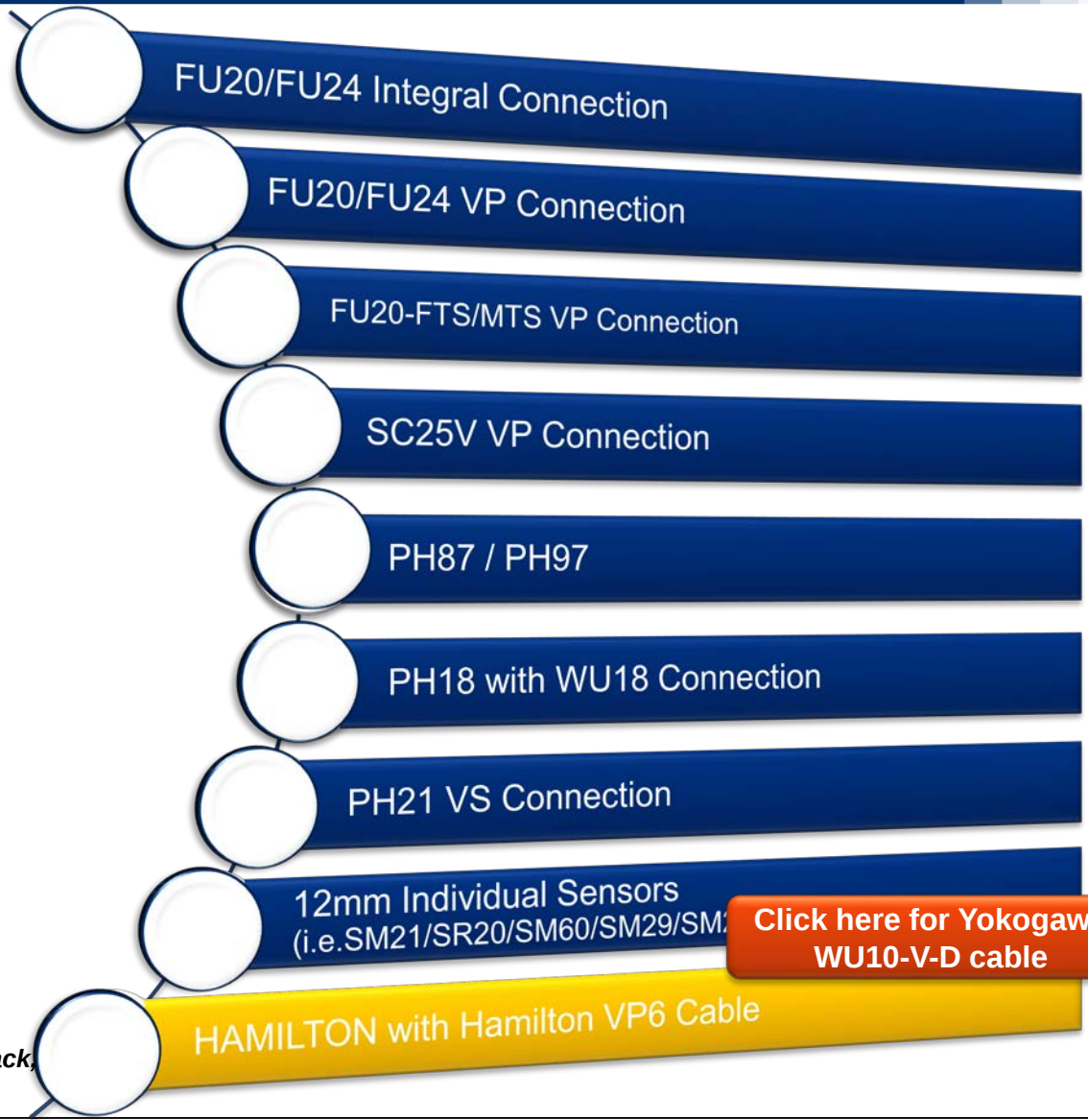
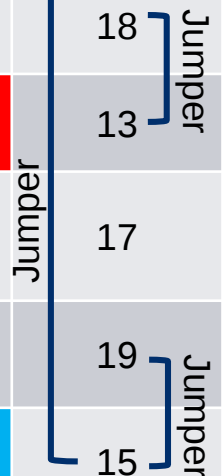
[Click here for Yokogawa WU10-V-D cable](#)

[Click here for ORP Wiring](#)



Wiring for ORP ONLY Measurement

Wire Color	Terminal #	Function
White	11	Temp, T1
Green	12	Temp, T2
(Jumper to 15)	14	LE
----	18	----
Red	13	Reference
----	17	Shield
----	19	----
Blue	15	Measure
----	16	Shield



[Click here for Yokogawa WU10-V-D cable](#)

Colors coming from the **Hamilton VP 6, 3551**** cable; **Black**, **Green**/ **Yellow** and **Gray** not connected

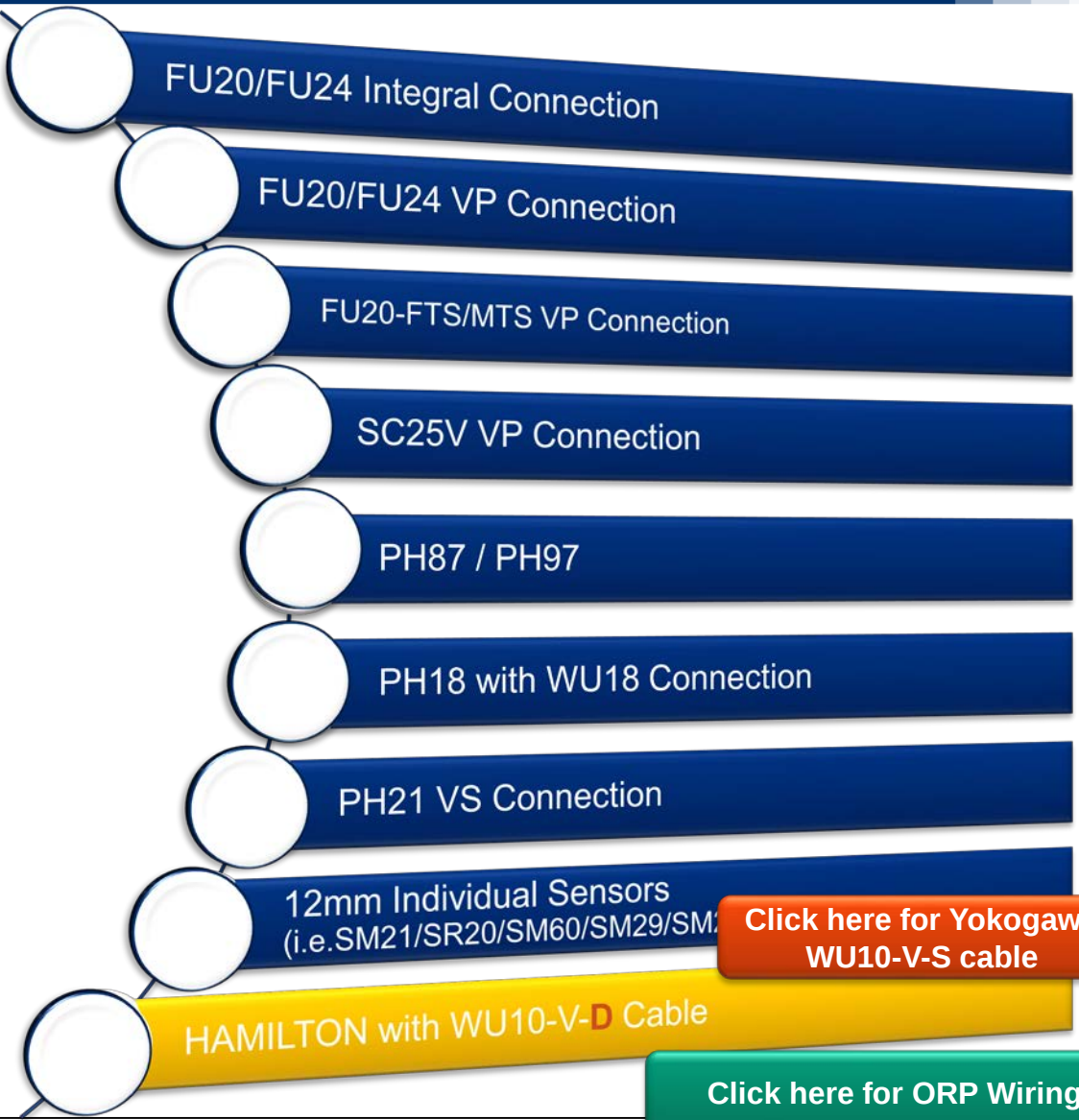


Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
White (Shield)	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Brown (Core)	15	Measure
White (Core)	16	Shield

Colors coming from the **YOKOGAWA WU10-V-D** cable;
 Green and Yellow not connected



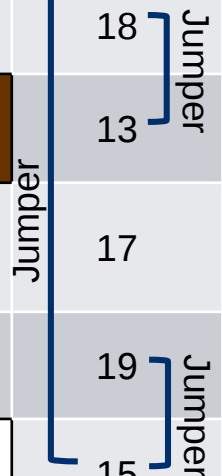
[Click here for Yokogawa WU10-V-S cable](#)

[Click here for ORP Wiring](#)

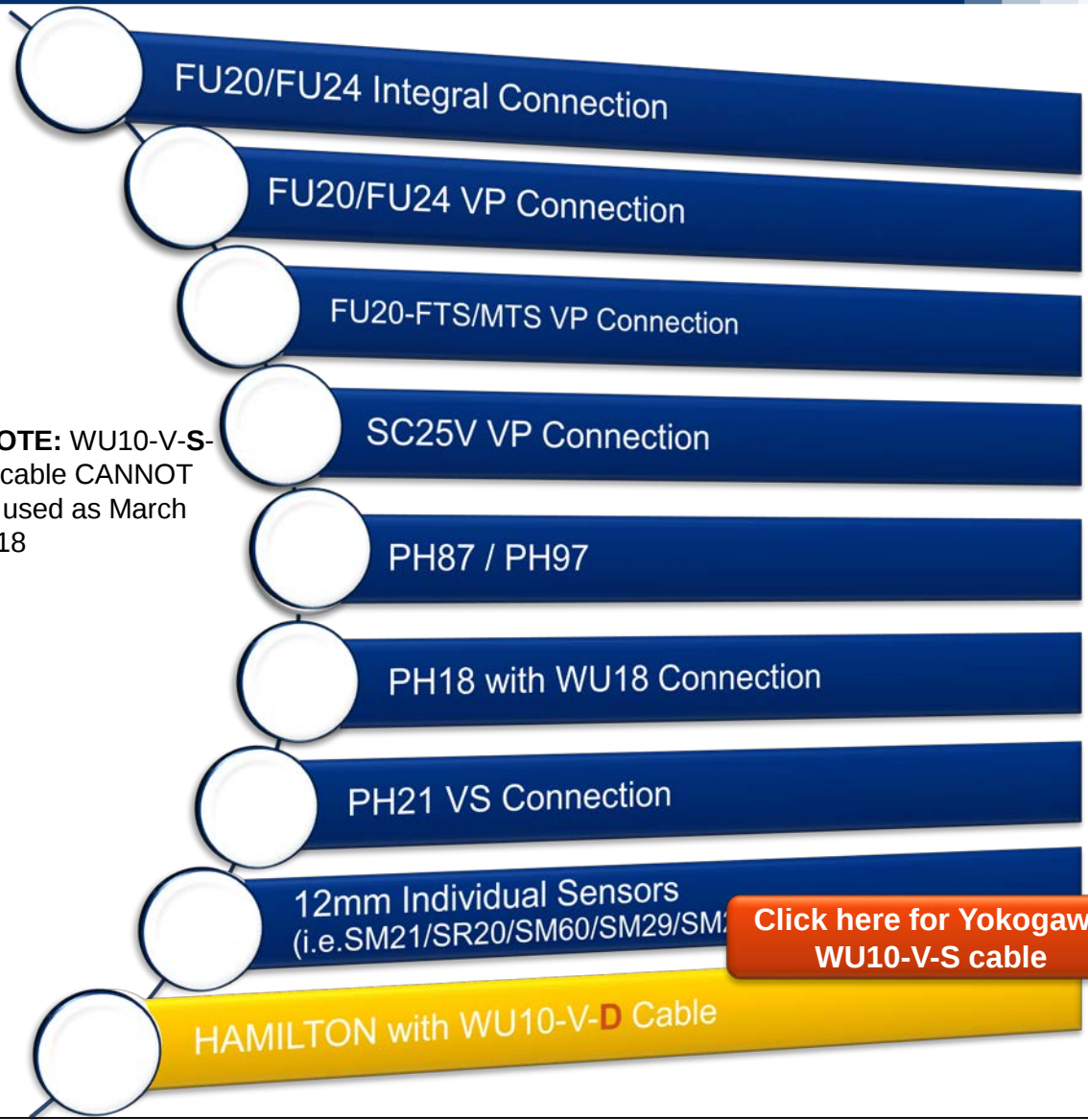
Wiring for ORP ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
(Jumper to 15)	14	LE
-----	18	-----
Brown (Shield)	13	Reference
-----	17	Shield
-----	19	----
White (Shield)	15	Measure
White Core	16	Shield



***NOTE:** WU10-V-S-xx cable CANNOT be used as March 2018



[Click here for Yokogawa WU10-V-S cable](#)

Colors coming from the **YOKOGAWA WU10-V-D** cable;
Brown Core, Yellow and Green not connected

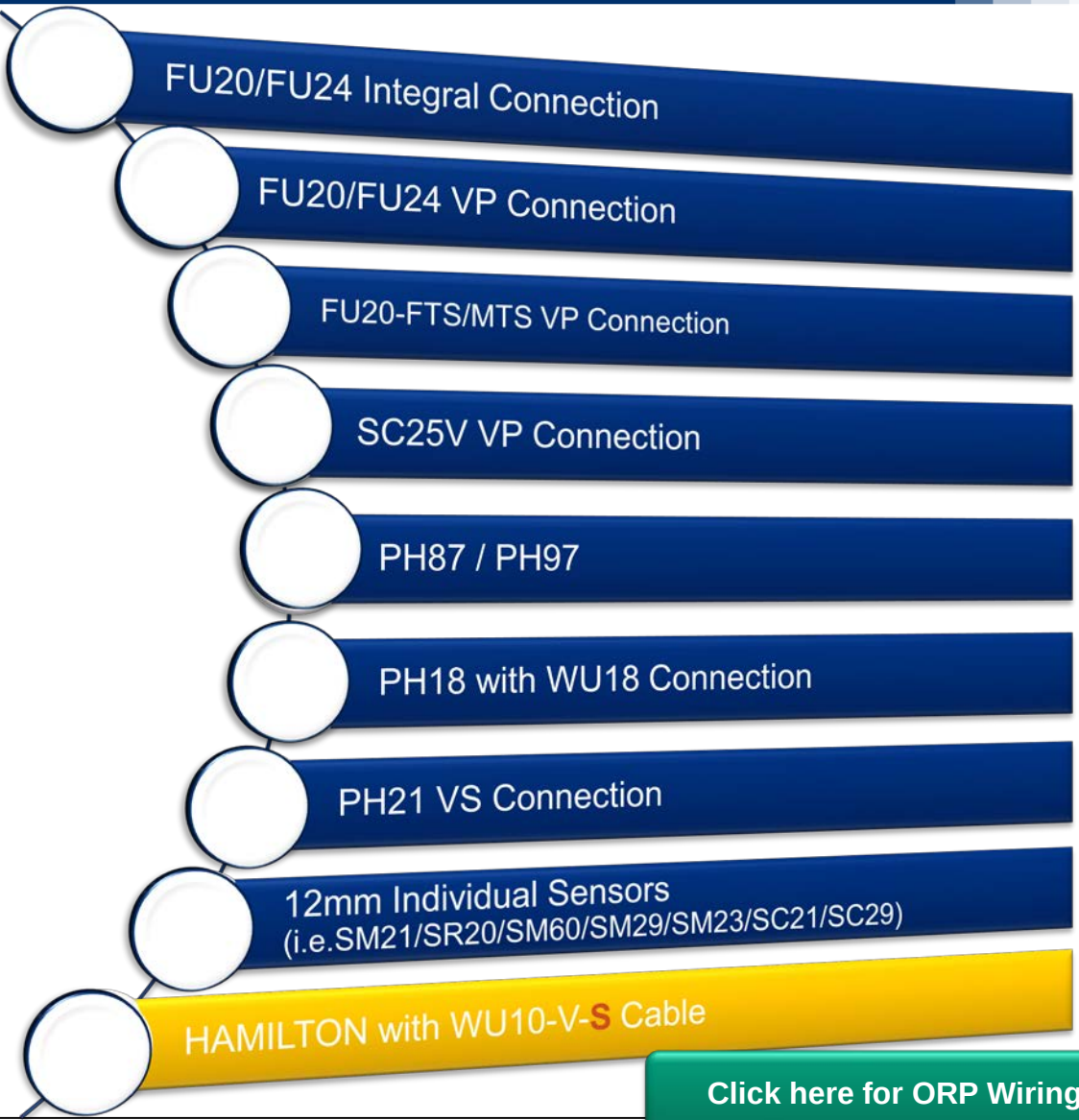


Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
-----	18	-----
Brown (Shield)	13	Reference
-----	17	Shield
-----	19	----
Brown Core	15	Measure
Black	16	Shield

Jumper



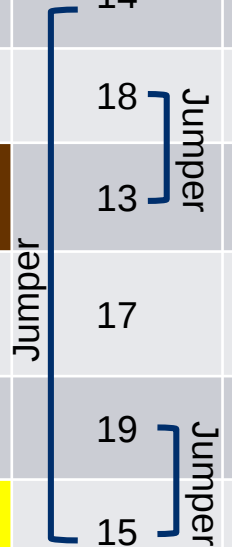
Colors coming from the **YOKOGAWA WU10-V-S** cable

[Click here for ORP Wiring](#)

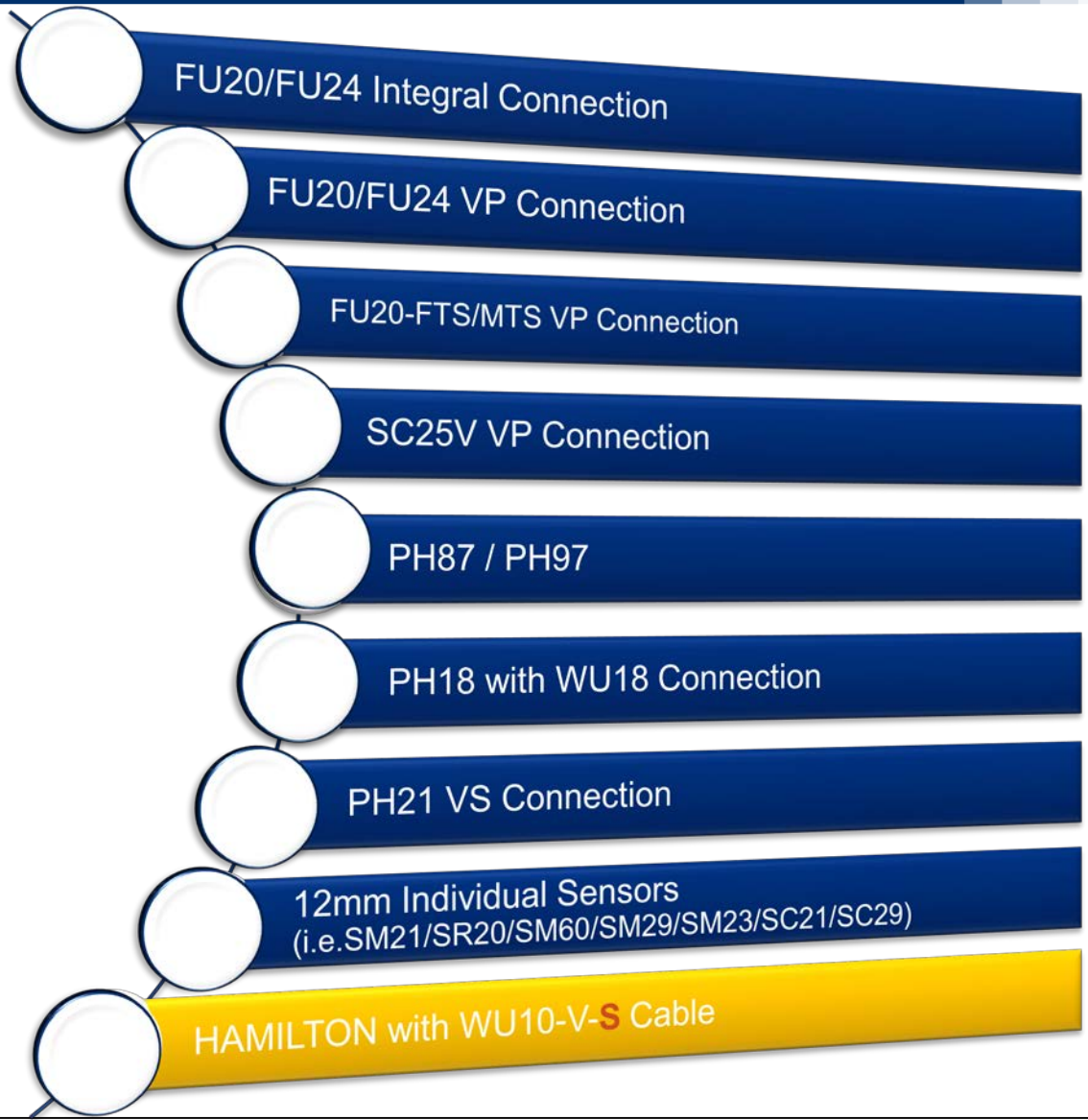


Wiring for ORP ONLY Measurement

Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
(Jumper to 15)	14	LE
----	18	----
Brown (Shield)	13	Reference
----	17	Shield
----	19	----
Yellow	15	Measure
----	16	Shield



Colors coming from **YOKOGAWA WU10-V-S Cable**;
Brown (core) and Black are not connected



12mm Individual Sensors

**SELECT
YOUR
SENSOR
Combination**

SM21/SR20/SM60 Combination – pH ONLY

SM21/SM23/SM60 Combination - pH ONLY

SM29/SM23 or SM29/SR20 Combination – ORP ONLY

SC29-PTG29/SR20/SM60 Combination - pH & ORP

SC21/SM60 Combination – pH ONLY

SM21/SM29/SM60 Combination

SC29-PTP29 wiring with WU20 cable

SC29-PTG29/SM60 Combination

PR10/SC21 or PR10/SC29 Combination



Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Black/ LE	14	LE
----	18	----
Red	13	Reference
Blue	17	Shield
----	19	----
Red	15	Measure
Blue	16	Shield

SM60 Sensor;
WU20-PCxx

SR20 Sensor;
WU20-PCxx

SM21 Sensor;
WU20-PCxx

Jumper



Colors coming from the **YOKOGAWA WU20-PCxx** cable;
solution ground cable (comes from holder) is part **K1500FV**



Wiring for pH ONLY Measurement



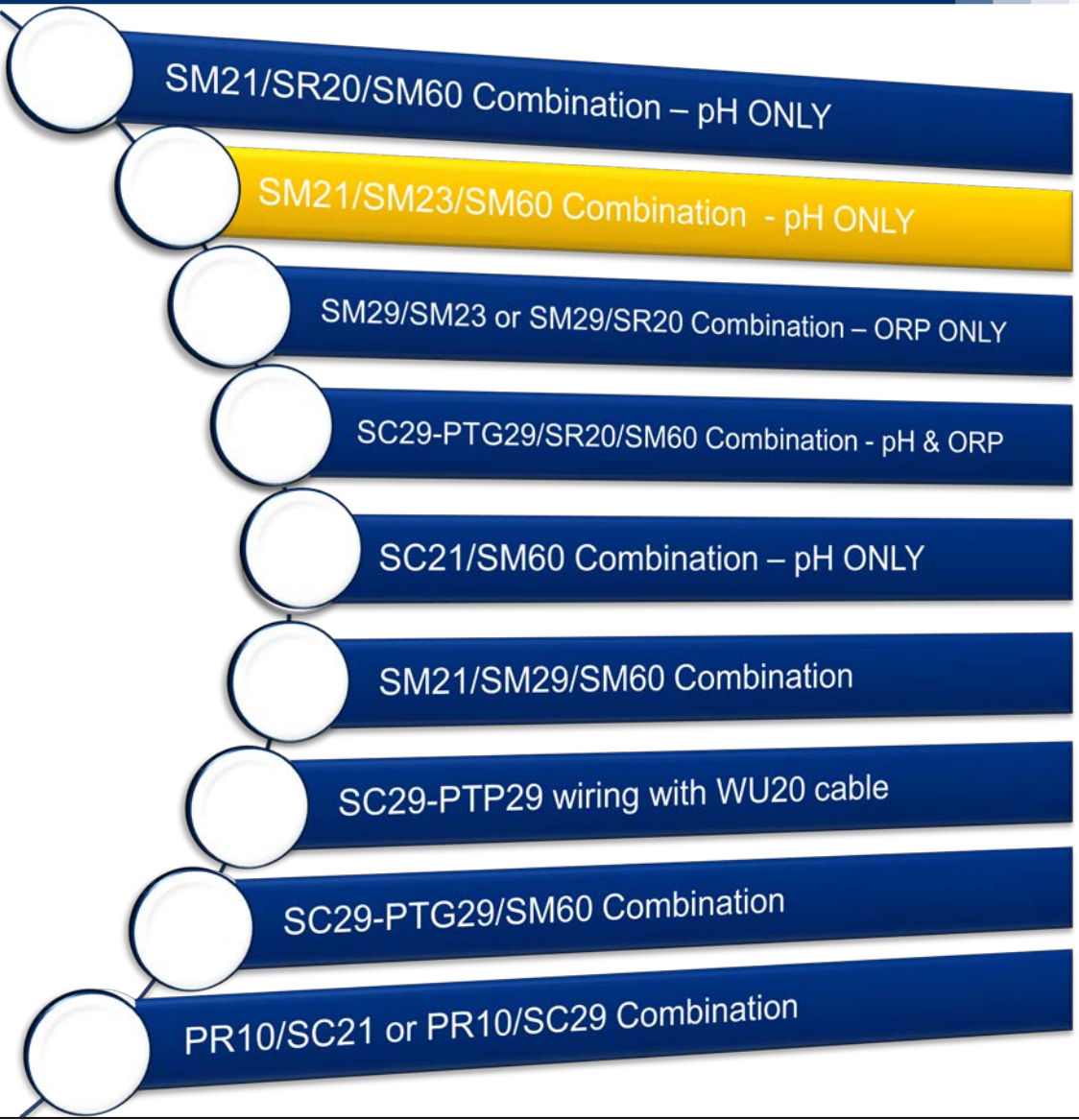
Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Black/ LE	14	LE
-----	18	-----
Red	13	Reference
Blue	17	Shield
-----	19	----
Red	15	Measure
Blue	16	Shield

SM60 Sensor;
WU20-PCxx

SM23 Sensor;
WU20-PCxx

SM21 Sensor;
WU20-PCxx

Jumper



Colors coming from the **YOKOGAWA WU20-PCxx** cable;
solution ground cable (comes from holder) is part **K1500FV**



Wiring for ORP ONLY Measurement

Wire Color	Terminal #	Function
-----	11	Temp, T1
-----	12	Temp, T2
Black/ LE	14	LE
-----	18	-----
Red	13	Reference
Blue	17	Shield
-----	19	----
Red	15	Measure
Blue	16	Shield

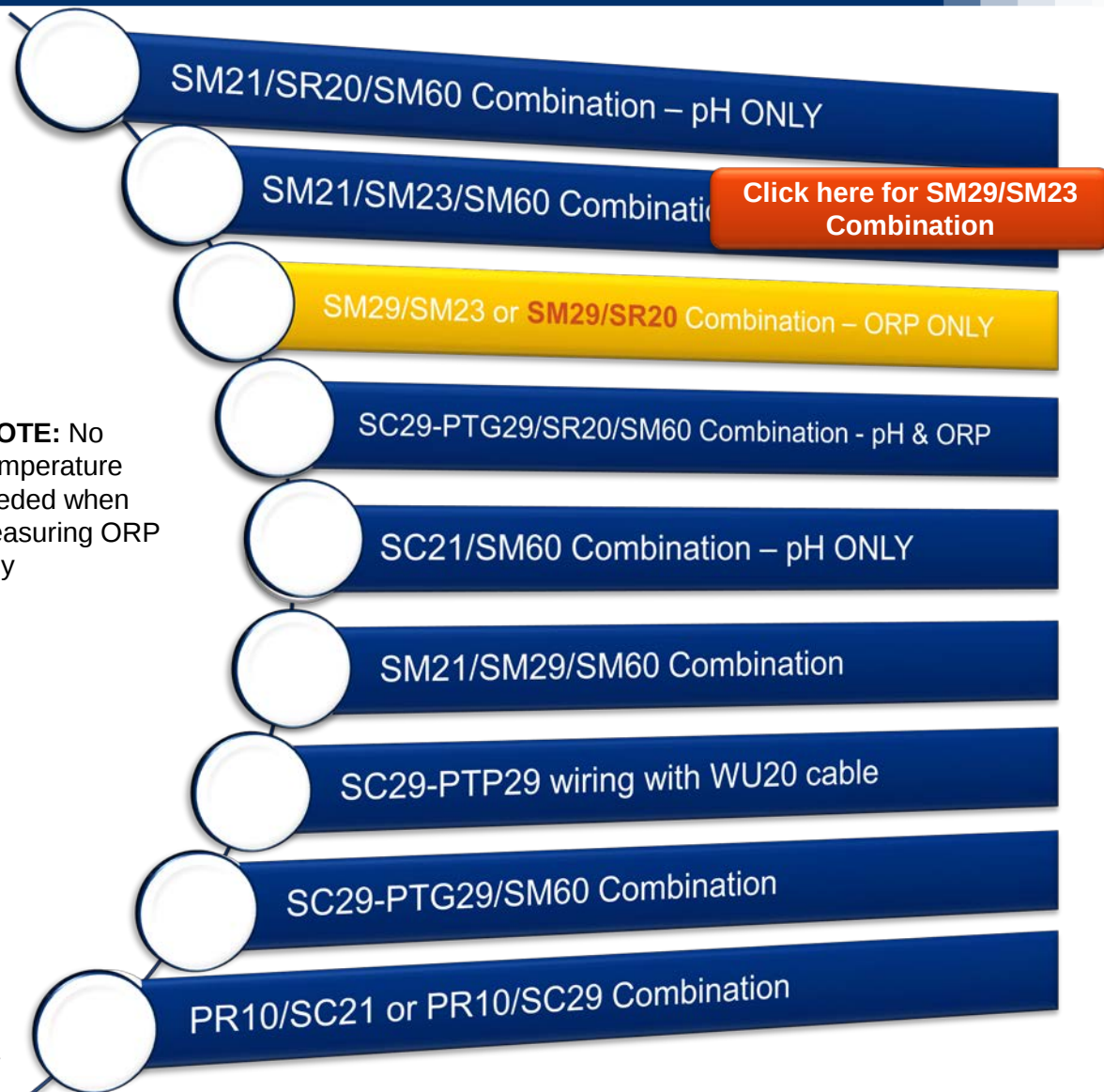
SR20 Sensor;
WU20-PCxx

SM29 Sensor;
WU20-PCxx

Jumper

Jumper

***NOTE:** No Temperature needed when measuring ORP only



[Click here for SM29/SM23 Combination](#)

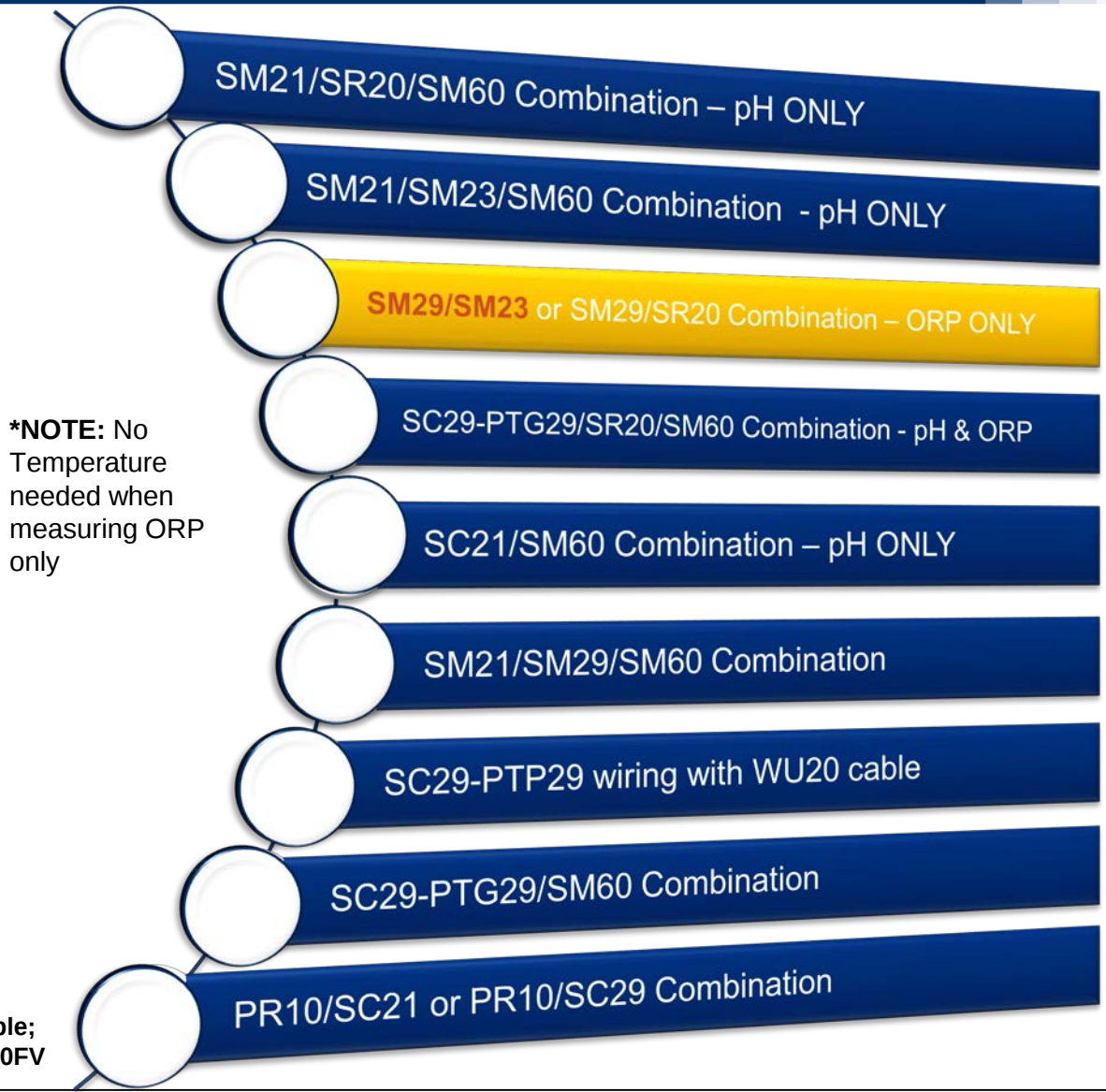
Colors coming from the **YOKOGAWA WU20-PCxx** cable; solution ground cable (comes from holder) is part **K1500FV**



Wiring for ORP ONLY Measurement

Wire Color	Terminal #	Function
-----	11	Temp, T1
-----	12	Temp, T2
Black/ LE	14	LE
-----	18	-----
Red	13	Reference
Blue	17	Shield
-----	19	----
Red	15	Measure
Blue	16	Shield

Colors coming from the **YOKOGAWA WU20-PCxx** cable;
solution ground cable (comes from holder) is part **K1500FV**



Wiring for pH & ORP Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Blue (from WU20-LTxx)	14	LE
-----	18	-----
Red	13	Reference
Blue	17	Shield
-----	19	----
Red	15	Measure
White	16	Shield

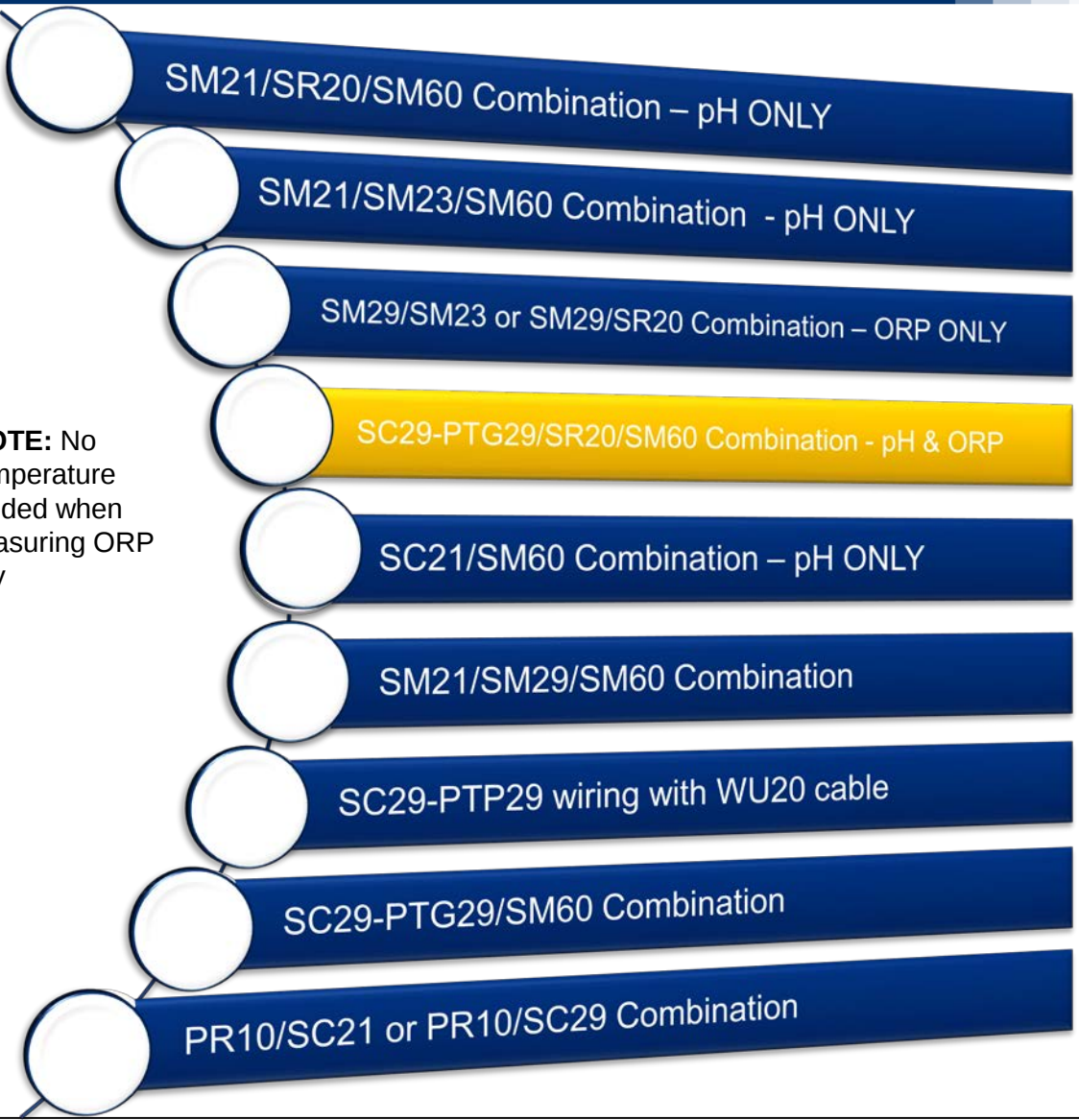
SM60 Sensor;
WU20-PCxx

SR20 Sensor;
WU20-PCxx

SC29 Sensor;
WU20-LTxx

Jumper

***NOTE:** No Temperature needed when measuring ORP only



*SM60 and SR20 Sensor uses the WU20-PC cable; SC29 sensor uses the WU20-LT cable
 * SC29 – pH/ ORP combination Sensor (i.e. SC29-PTG29)



Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Black/ LE	14	LE
-----	18	-----
Blue	13	Reference
White	17	Shield
-----	19	----
Red	15	Measure
-----	16	Shield

SM60 Sensor;
WU20-PCxx

SC21 Sensor;
WU20-LTx

Jumper



*SM60 Sensor uses the WU20-PC cable; SC21 sensor uses the WU20-LT cable
 * SC21 – pH/ Reference combination Sensor



Wiring for pH Compensated ORP Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Black/ LE	14	LE
-----	18	-----
Red	13	Reference
Blue	17	Shield
-----	19	----
Red	15	Measure
Blue	16	Shield

Colors coming from the **YOKOGAWA WU20-PCxx** cable;
solution ground cable (comes from holder) is part **K1500FV**



Wiring for ORP ONLY Measurement

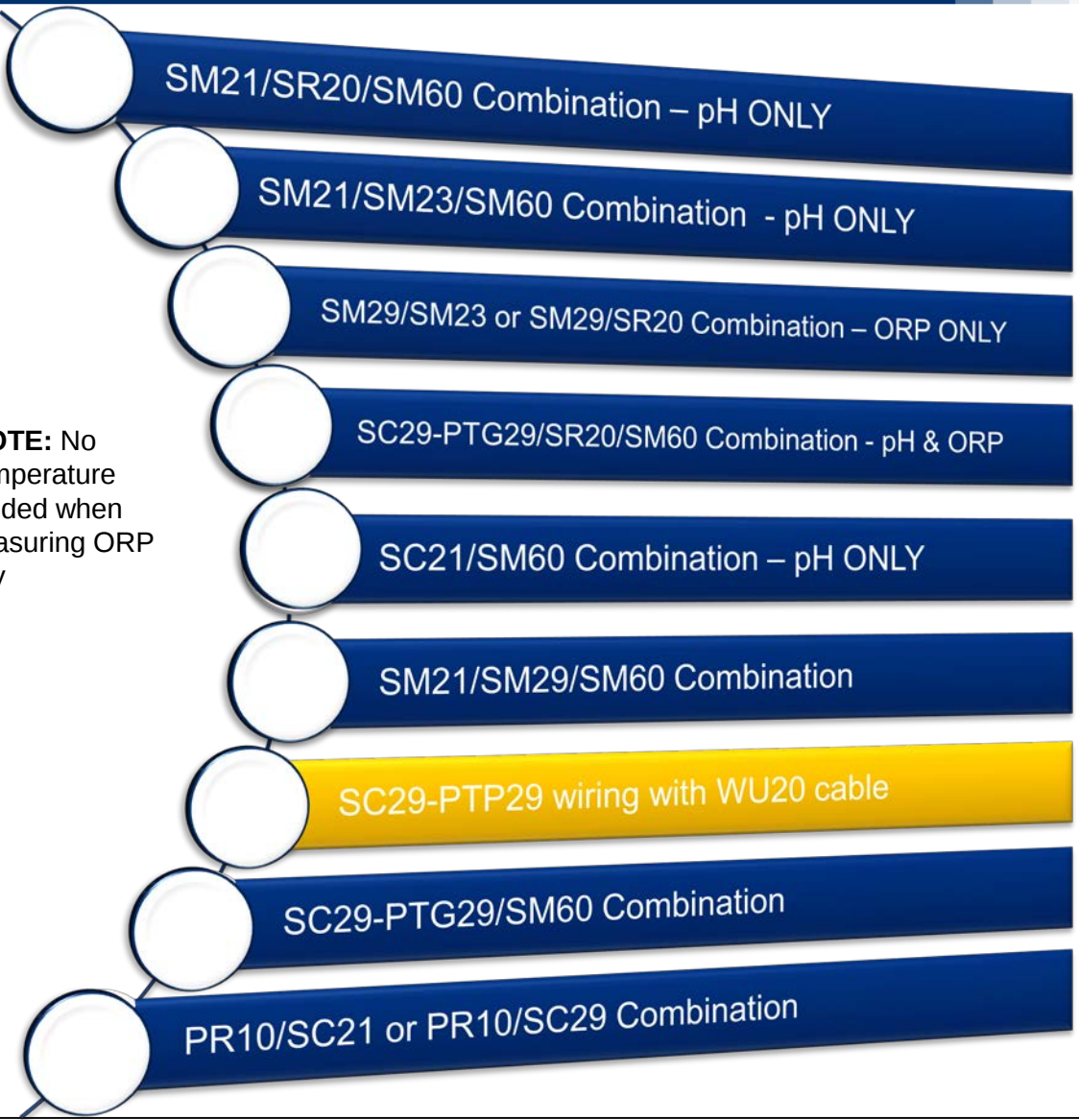
Wire Color	Terminal #	Function
-----	11	Temp, T1
-----	12	Temp, T2
Black/ LE	14	LE
-----	18	-----
Blue	13	Reference
White	17	Shield
-----	19	----
Red	15	Measure
	16	Shield

SC29 Sensor;
WU20-LTxx

Jumper

Jumper

***NOTE:** No Temperature needed when measuring ORP only



Colors coming from the **YOKOGAWA WU20-LTxx** cable; solution ground cable (comes from holder) is part **K1500FV**



Wiring for pH Compensated ORP Measurement



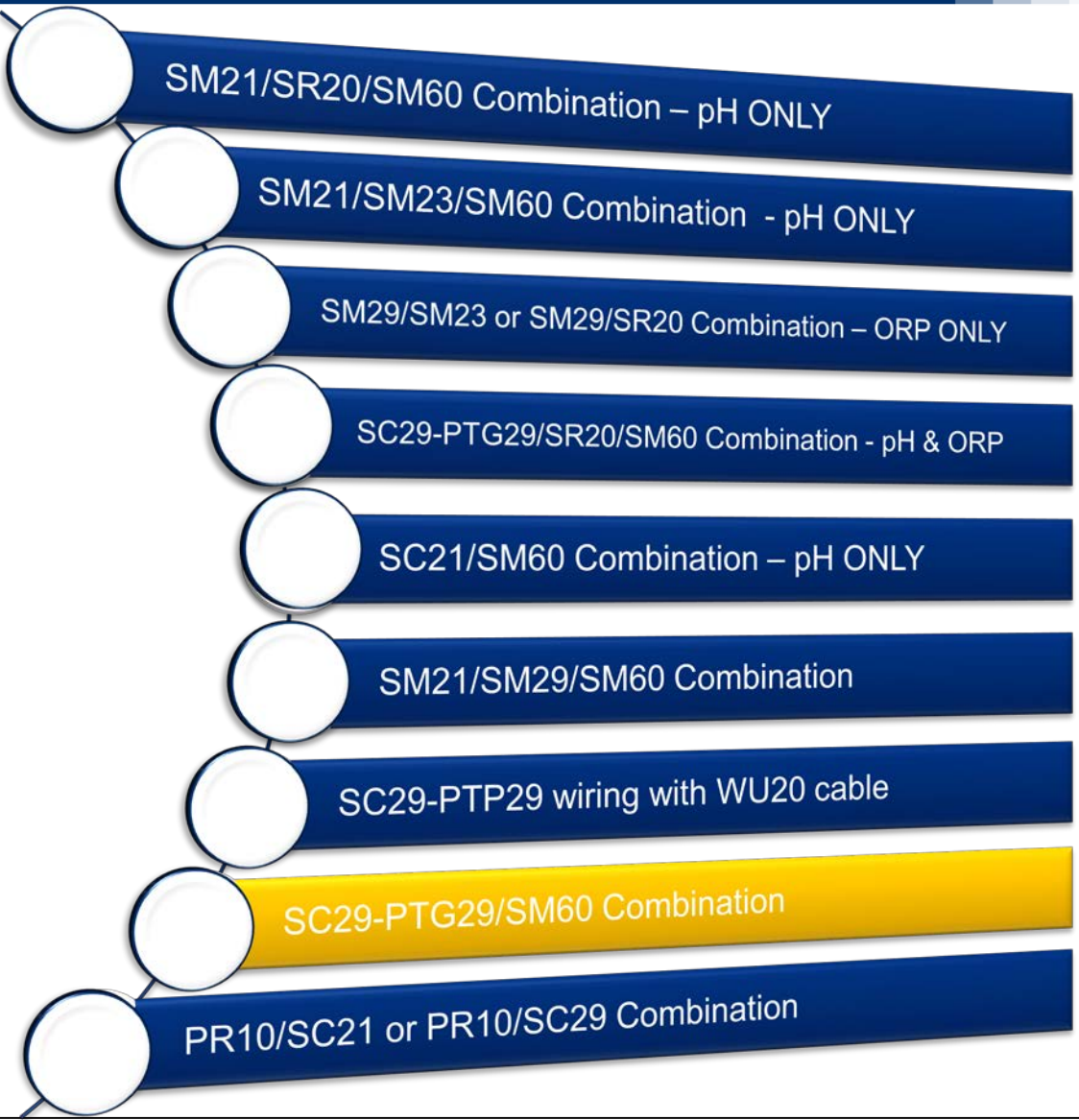
Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Black/ LE	14	LE
----	18	----
Red	13	Reference
----	17	Shield
----	19	----
Blue	15	Measure
White	16	Shield

SM60 Sensor;
WU20-PCxx

SC29 Sensor;
WU20-LT

SC29 Sensor;
WU20-LT

Jumper



Colors coming from the **YOKOGAWA WU20-XXxx** cable;
solution ground cable (comes from holder) is part **K1500FV**

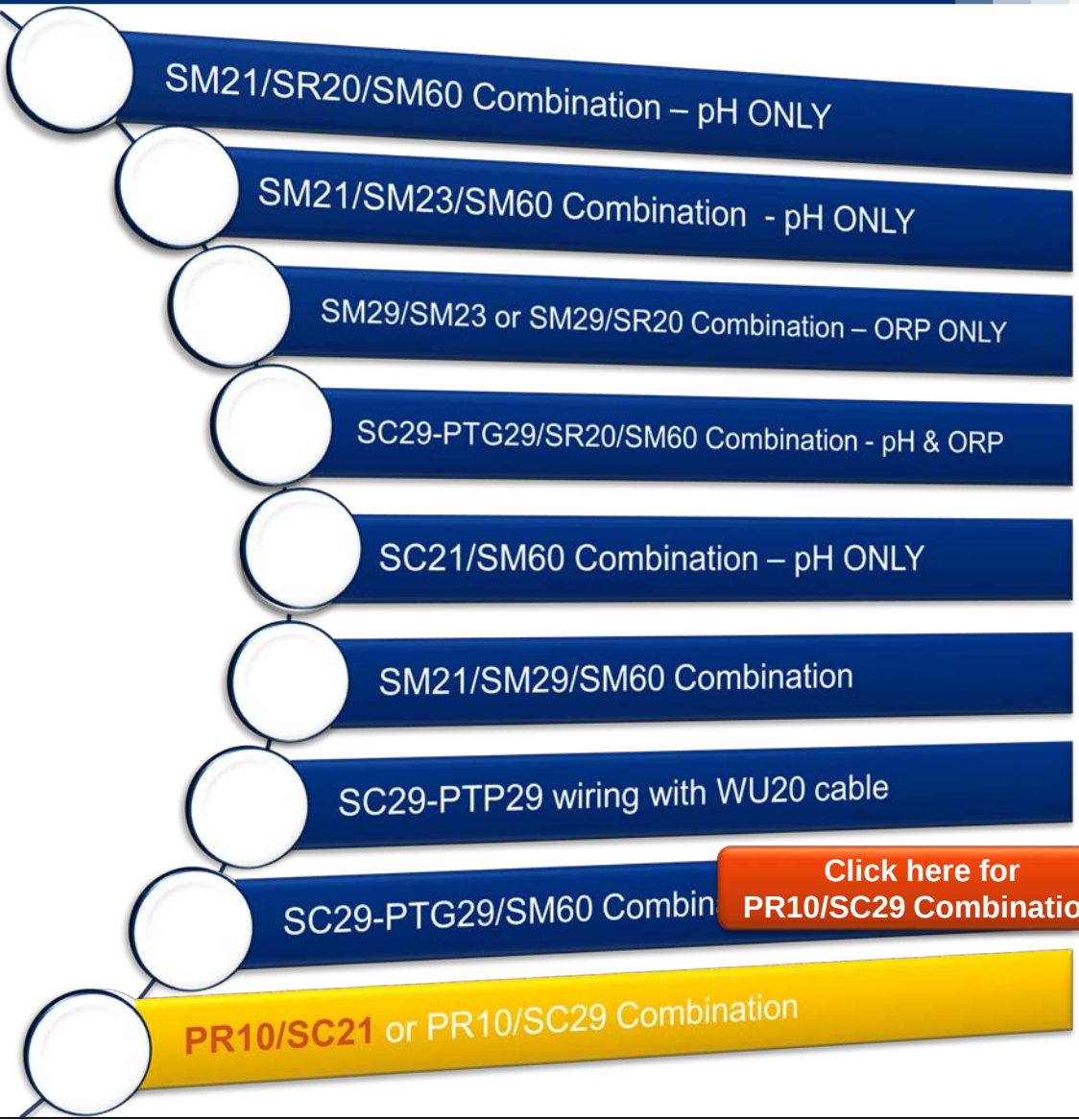


Wiring for pH ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
-----	18	-----
Black	13	Reference
-----	17	Shield
-----	19	----
Clear	15	Measure
Black Shield	16	Shield

Jumper



[Click here for PR10/SC29 Combination](#)

Colors coming from the **YOKOGAWA K1520L*** cable with built in RTD



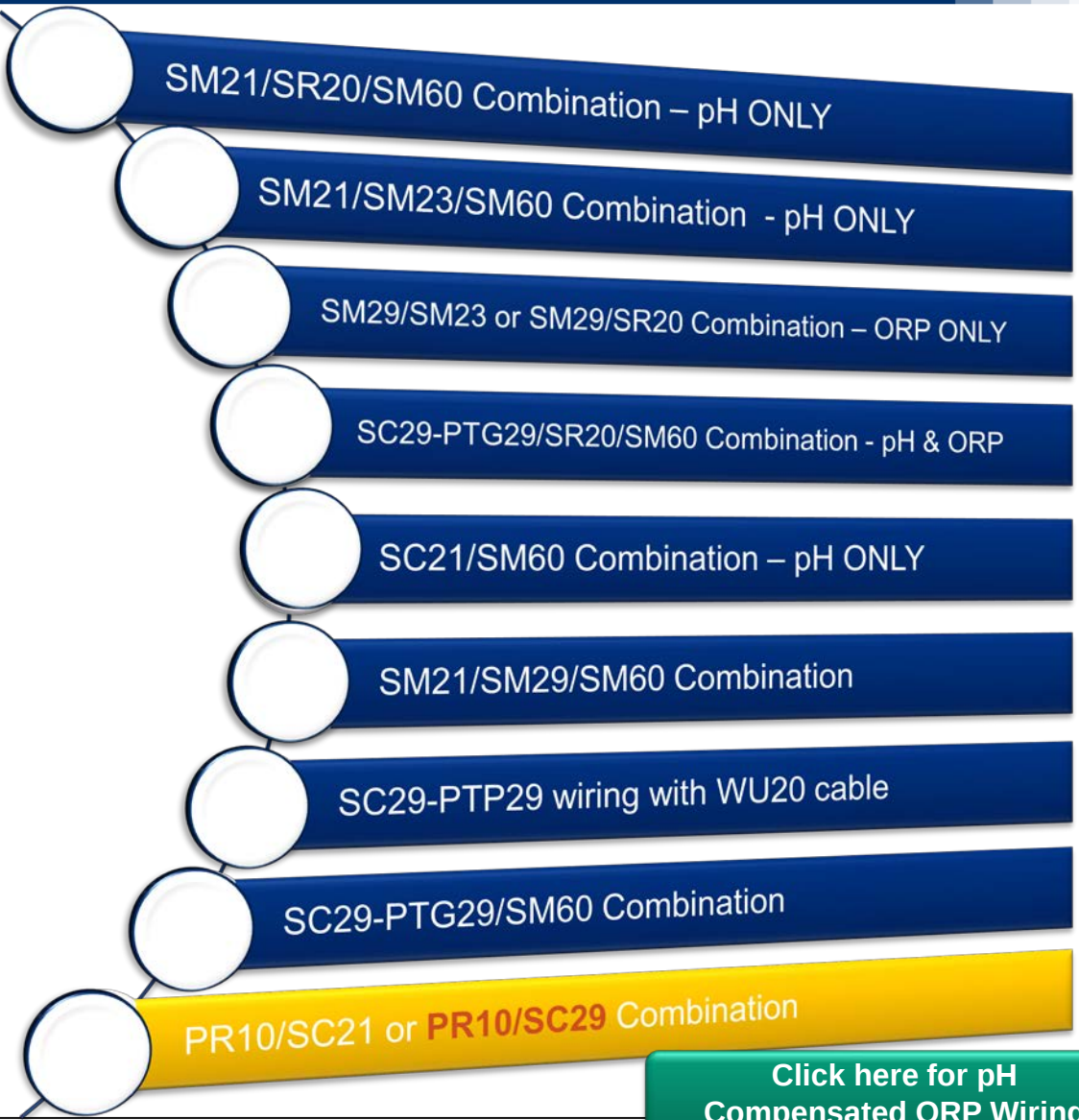
Wiring for ORP ONLY Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
-----	18	-----
Black	13	Reference
-----	17	Shield
-----	19	----
Clear	15	Measure
Black Shield	16	Shield

Jumper

Jumper



Colors coming from the **YOKOGAWA K1520L*** cable with built in RTD; i.e. SC29-PTP29 ORP/Ref combination Sensor

[Click here for pH Compensated ORP Wiring](#)



Wiring for pH Compensated ORP Measurement



Wire Color	Terminal #	Function
Red	11	Temp, T1
Blue	12	Temp, T2
Yellow	14	LE
-----	18	-----
Clear	13	Reference
Black	17	Shield
-----	19	----
Black Shield	15	Measure
-----	16	Shield

Colors coming from the **YOKOGAWA K1520L*** cable with built in RTD; i.e. SC29-PTG29 pH/ORP combination Sensor

