

Correct Pole and Prism Setup for **Robotic** TS Applications



ATP1 360° Prism

Confirm ATP1 360° Prism is being used.

Ensure small black **26 mm** spacer **is** attached.

Ensure specific **Robotic Pole** is used (top height marking will read **1.42 m**).

Make sure to select ATP1 360 Prism under:

Configuration – Survey Settings – Foresight P.C. in MAGNET Field.

Config: Survey Settings		✓ ×
Measurement Type	HA/VA/SD	~
Target Type	Prism	
Foresight P.C.	ATP1 360	
Backsight P.C.	0 Offset	—
Guide	Off	

Ensure the correct **Prism Constant/Offset** values are set by pressing and confirming the following values are displayed:





Press the Green Tick until returned to the home screen.



NOTE: Prism Constant/Offset refers to a value that compensates for the extra distance the laser beam travels through the prism in order to reach the plumb line and return towards the EDM once it initially hits the glass. It changes with differing construction and therefore changes with each prism type. Using the wrong Prism Constant will lead to Systematic Errors in a survey.

NOTE: *Vertical Height* is always measured from the base of the pole to the centre line of the prism. If unsure of the value, always take a manual measurement using a hand tape.



Correct Pole and Prism Setup for **Robotic** TS Applications



A7 360° Prism

Confirm A7 360° Prism is being used.

NO spacer is required.

Ensure specific **Robotic Pole** is used (top height marking will read **1.42 m**).

Make sure to select A7 Prism under:

Configuration – **Survey Settings** – **Foresight P.C.** in MAGNET Field.

Config: Survey Settings		✓ ×
Measurement Type	HA/VA/SD	_
Target Type	Prism	_
Foresight P.C.	Topcon A7 360	—
Backsight P.C.	0 Offset	
Guide	Off	

Ensure the correct **Prism Constant/Offset** values are set by pressing and confirming the following values are displayed:





Press the Green Tick until returned to the home screen.

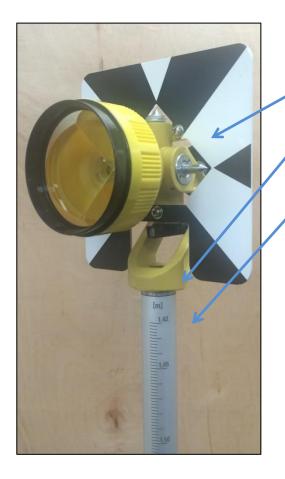


NOTE: Prism Constant/Offset refers to a value that compensates for the extra distance the laser beam travels through the interior of the prism in order to reach the plumb line and return towards the EDM once in initially hits the glass. It changes with differing construction and therefore changes with each prism type. Using the wrong Prism Constant will lead to Systematic Errors in a survey.

NOTE: *Vertical Height* is always measured from the base of the pole to the centre line of the prism. If unsure of the value, always take a manual measurement using a hand tape.



Correct Pole and Prism Setup for **Two-Man** TS Applications



'Old Style' 0-Offset Prism- Pole Mount

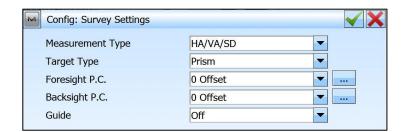
Confirm 0-Offset Prism is being used.

Remove prism from Adaptor and Chrome Spacer from base of prism mount- **NO** spacer is required.

Ensure specific **Robotic Pole** is used (top height marking will read **1.42 m**).

Make sure to select **0-Offset** Prism under:

Configuration – **Survey Settings** – **Foresight P.C.** in MAGNET Field.



Ensure the correct **Prism Constant/Offset** values are set by pressing and confirming the following values are displayed:





Press the Green Tick until returned to the home screen.



NOTE: Prism Constant/Offset refers to a value that compensates for the extra distance the laser beam travels through the interior of the prism in order to reach the plumb line and return towards the EDM once it initially hits the glass. It changes with differing construction and therefore changes with each prism type. Using the wrong Prism Constant will lead to Systematic Errors in a survey.

NOTE: *Vertical Height* is always measured from the base of the pole to the centre line of the prism. If unsure of the value, always take a manual measurement using a hand tape.



Correct Pole and Prism Setup for **Two-Man** TS Applications



'Old Style' 0-Offset Prism- Tripod Mount

Confirm **0-Offset Prism** is being used.

Ensure **Tribrach Adaptor with Optical Plummet** is attached to both prism and tribrach.

Make sure tribrach is secured centrally on tripod.

Make certain to select **0-Offset** Prism under: **Configuration** – **Survey Settings** – **Foresight P.C.** in

MAGNET Field (if using a prism as a backsight, also
ensure to select the correct model under **Backsight P.C.**).

Config: Survey Settings		✓ ×
Measurement Type	HA/VA/SD	~
Target Type	Prism	▼
Foresight P.C.	0 Offset	—
Backsight P.C.	0 Offset	
Guide	Off	~

Ensure the correct **Prism Constant/Offset** values are set by pressing and confirming the following values are displayed:



Prism Info			
Name	0 Offset		
Constant		0.0	mm
Hybrid positioning ante	enna offset	0.000	m

Press the Green Tick until returned to the home screen.



NOTE: *Prism Constant/Offset* refers to a value that compensates for the extra distance the laser beam travels through the interior of the prism in order to reach the plumb line and return towards the EDM once it initially hits the glass. It changes with differing construction and therefore changes with each prism type. Using the wrong Prism Constant will lead to **Systematic Errors** in a survey.

NOTE: *Prism Height* is always measured vertically from the ground to the horizontal centre line of the prism, indicated by the black triangles on the target plate. Always take a manual measurement using a hand tape.