#### **MUNICIPAL COURT**

LAKEWOOD • UNIVERSITY PLACE • STEILACOOM • DUPONT

# Speed Measuring Device (SMD) Calibration Certificates for UNIVERSITY PLACE

Last updated 06/25/2020

\*Calibrations are good for 2 years\*

SUSAN ADAMS MUNICIPAL COURT JUDGE

DEANA L. WRIGHT MUNICIPAL COURT ADMINISTRATOR











1422 112<sup>th</sup> Street East Tacoma, Washington 98445 (253) 798-7147

#### **CERTIFICATE OF CALIBRATION & ACCURACY**

Manufacturer:	MPH Industries	Date Certified:	05/15/2019
Model:	Python	Agency:	PCSD
Serial Number:	PYT546001944	************	
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds al	l manufacturer's specificati	ons.
	TUNING FO	PRK	
Raymond Fleming do certify ounty of Pierce, that all applicable te	under the penalty of perjur		
Tuning Fork Serial No.:	274859	Date Certified:	05/15/2019
Oscillation (Cycles per Second):	2519	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22	F to +140F no correction is	required.
	TUNING F	ORK	
Raymond Fleming , do certify ounty of Pierce, that all applicable te	under the penalty of perjur sts and measurements were		
Tuning Fork Serial No.:	276253	Date Certified:	05/15/2019
Oscillation (Cycles per Second):	4678	Agency:	PCSD
Operating Frequency Band:	K	•	
MPH:	65		
****	waan tha taninayatuna of 20	F to +140F no correction is	hariman

DATED

SIGNED



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Manufacturer:	MPH Industries	Date Certified:	affic Radar equipment: 09/29/2016
Model:	Python	Agency:	PCSD
Serial Number:	PYT546002565		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds all mai	ıufacturer's specificat	ons.
	TUNING FORK		The state of the s
<u>Jorge Marciano</u> , do cer ounty of Pierce, that all applicable te	tify under the penalty of perjury sts and measurements were mad		
Tuning Fork Serial No.:	279950	Date Certified:	09/29/2016
Oscillation (Cycles per Second):	2518	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to	+140F no correction is	required.
ed kanada kanada kanada ya sa kanada kan	TUNING FORE		
<u>Jorge Marciano</u> , do ce ounty of Pierce, that all applicable te	rtify under the penalty of perjury sts and measurements were mad		
Tuning Fork Serial No.:	279698	Date Certified:	09/29/2016
Oscillation (Cycles per Second):	4679	Agency:	PCSD
Operating Frequency Band:	K		
MADIT.	65		
MPH:			
WPD;	A		



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		Date Certified:	03/16/2020
Model:	Python	Agency:	PCSD
Serial Number:	PYT546002877		
Operating Frequency Band:	K	600/4004/1/1/100	
The aforesaid	radar meets and exceeds al	ll manufacturer's specificati	ions.
	TUNING FO	DRK .	
<u>Cody Hill</u> , do certify ounty of Pierce, that all applicable te		y, under the laws of the Sta made on the following Dop	
Tuning Fork Serial No.:	268485	Date Certified:	03/16/2020
Oscillation (Cycles per Second):	2520	Agency:	PCSD
Operating Frequency Band:	K		
MPH:	35		
			***************************************
When operated bety	veen the temperature of -22	2F to +140F no correction is	required.
O - 4- 1191 X 110	TUNING F		
Cody Hill , do certify ounty of Pierce, that all applicable te		iry, under the laws of the St made on the following Dop	
Tuning Fork Serial No.:	631718	Date Certified:	03/16/2020
Oscillation (Cycles per Second):	4678	Agency:	PCSD
Operating Frequency Band::	K		
MPH:	65		
When operated bety	veen the temperature of -22	2F to +140F no correction is	required,



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I, Raymond Fleming ,do certify und of Pierce, that all applicable tests and i			
Manufacturer:	MPH Industries	Date Certified:	11/05/2018
Model:	Python	Agency:	PCSD
Serial Number:	PYT546002959		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds all man	ufacturer's specificatio	ns.
	TUNING FORK		
I, <u>Raymond Fleming</u> , do certify County of Pierce, that all applicable te	ounder the penalty of perjury, un sts and measurements were made		
Tuning Fork Serial No.:	283245	Date Certified:	11/05/2018
Oscillation (Cycles per Second):	2521	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to	-140F no correction is 1	equired.
	TUNING FORK	**************************************	
I, Raymond Fleming , do certify County of Pierce, that all applicable te	under the penalty of perjury, und	der the laws of the Stat	
Tuning Fork Serial No.:	282675	Date Certified:	11/05/2018
Oscillation (Cycles per Second):	4688	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	65		
When operated bet	ween the temperature of -22F to	140F no correction is 1	·equired.
I certify under penalty of perjury, und	er the laws of the State of Washing	ton, that the above state	ments are true and correct.
Dated and Signed at Tacoma, Was	hington 11/05/20/8		RIGNED



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Manufacturer:	MPH Industries	Date Certified:	04/23/2020
Model:	Python	Agency:	PCSD
Serial Number:	PYT546003357		
Operating Frequency Band:	K	***************************************	
The aforesaid	radar meets and exceeds al	l manufacturer's specificati	ions.
	TUNING FO	)RK	<u>;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;</u>
Raymond Fleming , do certify ounty of Pierce, that all applicable te	under the penalty of perju	ry, under the laws of the St	
Tuning Fork Serial No.:	284984	Date Certified:	04/23/2020
Oscillation (Cycles per Second):	2520	Agency:	PCSD
Operating Frequency Band:	K		
MPH:	35	**********	
When operated bet	ween the temperature of -22	F to +140F no correction is	required.
	TUNING F	ORK	
Raymond Fleming , do certify ounty of Pierce, that all applicable to	y under the penalty of perju sts and measurements were		
Tuning Fork Serial No.:	284924	Date Certified:	04/23/2020
Oscillation (Cycles per Second):	4693	Agency:	PCSD
Operating Frequency Band:	K		
MPH:	65		
	ween the temperature of -22	F to +140F no correction is	required.
When operated bet			



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#### **CERTIFICATE OF CALIBRATION & ACCURACY**

Manufacturer:	MPH Industries	Date Certified:	02/16/2017
Model:	Python	Agency:	PCSD
Serial Number:	PYT546004259		
Operating Frequency Band:	K	:	
The aforesaid	radar meets and exceeds all ma	nufacturer's specificat	ions.
	TUNING FORK		
Jorge Marciano, do cer ounty of Pierce, that all applicable te	tify under the penalty of perjury sts and measurements were mad		
Tuning Fork Serial No.:	290073	Date Certified:	02/16/2017
Oscillation (Cycles per Second):	2521 ·	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to	+140F no correction is	required.
	TUNING FORE		
Jorge Marciano , do ce unty of Pierce, that all applicable te	tify under the penalty of perjur sts and measurements were mad		
Tuning Fork Serial No.:	290695	Date Certified:	02/16/2017
Oscillation (Cycles per Second):	4677	Agency:	PCSD
Operating Frequency Band:	K		
МРН:	65		

I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct.

Dated and Signed at Tacoma, Washington



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#### **CERTIFICATE OF CALIBRATION & ACCURACY**

<u>do certi</u>fy under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Traffic Radar equipment: Manufacturer: **MPH** Industries Date Certified: 08/06/2019 Model: **PCSD** Python III Agency: Serial Number: PYT846001839 **Operating Frequency Band:** K The aforesaid radar meets and exceeds all manufacturer's specifications. TUNING FORK <u>, do certify</u> under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks: **Tuning Fork Serial No.:** 072097 Date Certified: 08/06/2019 Oscillation (Cycles per Second): 2518 Agency: **PCSD Operating Frequency Band:** K MPH: 35 When operated between the temperature of -22F to +140F no correction is required. **TUNING FORK** <u>, do certify</u> under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks: Tuning Fork Serial No.: 262598 Date Certified: 08/06/2019 **PCSD** Oscillation (Cycles per Second): 4677 Agency: **Operating Frequency Band:** K MPH: 65 When operated between the temperature of -22F to +140F no correction is required. I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct.

Dated and Signed at Tacoma, Washington 8-6-19
DATED



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#### **CERTIFICATE OF CALIBRATION & ACCURACY**

I, Raymond Fleming, do certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Traffic Radar equipment: Manufacturer: **MPH Industries** Date Certified: 06/11/2019 Model: **Python PCSD** Agency: Serial Number: PYT380001397 **Operating Frequency Band:** K The aforesaid radar meets and exceeds all manufacturer's specifications. TUNING FORK , do certify under the penalty of perjury, under the laws of the State of Washington, in the I, Raymond Fleming County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks: Tuning Fork Serial No.: 261312 Date Certified: 06/11/2019 Oscillation (Cycles per Second): 2520 **PCSD** Agency: **Operating Frequency Band:** K MPH: 35 When operated between the temperature of -22F to +140F no correction is required. TUNING FORK , do certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks: Tuning Fork Serial No.: 250544 Date Certified: 06/11/2019 Oscillation (Cycles per Second): 4680 Agency: **PCSD Operating Frequency Band:** K MPH: 65 When operated between the temperature of -22F to +140F no correction is required. I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct, Dated and Signed at Tacoma, Washington 06/11



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	WANAGARA III	***************************************
Python	Agency:	PCSD
PYT380001682	***************************************	
K	************	
radar meets and exceeds al	l manufacturer's specificati	ons.
TUNING FO	)RK	
74175	Date Certified:	05/12/2020
2531	Agency:	PCSD
K		
35		
veen the temperature of -22	IF to +140F no correction is	required.
TUNING F	ORK	
74197	Date Certified:	05/12/2020
4682	Agency:	PCSD
K		
65		
ween the temperature of -22	EF to +140F no correction is	required.
	THE PROPERTY OF THE PROPERTY O	
or the mind of the Grate of the	ishington, that the above our	emonia are a ne ana correct
	PYT380001682  K  radar meets and exceeds al  TUNING FO under the penalty of perjursts and measurements were 74175 2531  K  35  ween the temperature of -22  TUNING FO under the penalty of perjursts and measurements were 74197 4682  K  65	radar meets and exceeds all manufacturer's specificati  TUNING FORK  under the penalty of perjury, under the laws of the Stars and measurements were made on the following Dopt  74175  Date Certified:  Agency:  Ween the temperature of -22F to +140F no correction is  TUNING FORK  under the penalty of perjury, under the laws of the Starsts and measurements were made on the following Dop  74197  Date Certified:  Agency:  K



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#### **CERTIFICATE OF CALIBRATION & ACCURACY**

Manufacturer:	MPH Industries	Date Certified:	10/12/2018
Model:	Python	Agency:	PCSD
Serial Number:	PYT546000410		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds al	l manufacturer's specificati	ons.
	TUNING FO	ORK	
Raymond Fleming , do certify ounty of Pierce, that all applicable te	y under the penalty of perju sts and measurements were	ry, under the laws of the St made on the following Dop	ate of Washington, in the pler Radar Tuning Forks
Tuning Fork Serial No.:	266074	Date Certified:	10/12/2018
Oscillation (Cycles per Second):	2518	Agency:	PCSD
Operating Frequency Band:	K		
MPH:	35		
**/			
when operated ber		EF to +140F no correction is	required.
Raymond Fleming , do certify ounty of Pierce, that all applicable te		ry, under the laws of the St	
Tuning Fork Serial No.:	264224	Date Certified:	10/12/2018
Oscillation (Cycles per Second):	4678	Agency:	PCSD
Operating Frequency Band:	K		
MPH:	65		
			***************************************
When operated bet	ween the temperature of -22	IF to +140F no correction is	required.

DATED

SIGNED



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I, Raymond Fleming do certify under of Pierce, that all applicable tests and it			
Manufacturer:	MPH Industries	Date Certified:	12/12/2019
Model:	Python	Agency:	PCSD
Serial Number:	PYT546000465		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds all man	ufacturer's specificatio	ons,
	TUNING FORK	,	
I, <u>Raymond Fleming</u> , <u>do</u> certify County of Pierce, that all applicable te			
Tuning Fork Serial No.:	267011	Date Certified:	12/12/2019
Oscillation (Cycles per Second):	2524	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to +	·140F no correction is	required.
	TUNING FORK		
I, <u>Raymond Fleming</u> , <u>do</u> certify County of Pierce, that all applicable te			
Tuning Fork Serial No.:	265831	Date Certified:	12/12/2019
Oscillation (Cycles per Second):	4675	Agency:	PCSD
Operating Frequency Band:	K		
MPH:	65		
When operated bet	ween the temperature of -22F to 4	·140F no correction is	required.
I certify under penalty of perjury, und	ler the laws of the State of Washing	ton, that the above state	ements are true and correct.
Dated and Signed at Tacoma, Was	hington <u>/2/12/2019</u> DATED	No.	SIGNED



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, Raymond Fleming , do certify und of Pierce, that all applicable tests and i			
Manufacturer:	MPH Industries	Date Certified:	08/14/2019
Model:	Python	Agency:	PCSD
Serial Number:	PYT546001345		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds all man	ufacturer's specificatio	ons.
	TUNING FORK	,	
, <u>Raymond Fleming</u> , <u>d</u> o certify County of Pierce, that all applicable te	y under the penalty of perjury, un sts and measurements were made	der the laws of the Sta on the following Dopp	te of Washington, in the oler Radar Tuning Forks:
Tuning Fork Serial No.:	5231	Date Certified:	08/14/2019
Oscillation (Cycles per Second):	2507	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to -	-140F no correction is	required.
	TUNING FORK		
, <u>Raymond Fleming</u> , <u>do</u> certify County of Pierce, that all applicable te			
Tuning Fork Serial No.:	5141	Date Certified:	08/14/2019
Oscillation (Cycles per Second):	4659	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	65		
When operated bet	ween the temperature of -22F to -	-140F no correction is	required.
I certify under penalty of perjury, und	ler the laws of the State of Washing	ton, that the above state	ments are true and correct.
Dated and Signed at Tacoma, Was	hington 08/14/2019		SIGNED.



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Manufacturer:	MPH Industries	Date Certified:	04/20/2018
Model:	Python	Agency:	PCSD
Serial Number:	PYT380000218		
Operating Frequency Band:	K	MACAMANAGA	
The aforesaid	radar meets and exceeds all	manufacturer's specificati	ons.
	TUNING FO	RK	
Raymond Fleming , do certify unity of Pierce, that all applicable te	under the penalty of perju		
Tuning Fork Serial No.:	277430	Date Certified:	04/20/2018
Oscillation (Cycles per Second):		Agency:	PCSD
	**************************************	Agency.	1 (31)
Operating Frequency Band:	K		
МРН:	35		
When operated bet	ween the temperature of -22	F to +140F no correction is	required.
	TUNING FO	ORK	
	under the penalty of perju		
unty of Pierce, that all applicable te Tuning Fork Serial No.:	072008	Date Certified:	04/20/2018
<del>-</del>	**************************************	*********	PCSD
Oscillation (Cycles per Second):	**************************************	Agency:	rCsD
Operating Frequency Band:	K		
МРН:	65	**********	
	gran the temperature of 22	F to +140F no correction is	required.
When operated bet	ween me temberature of """		



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Manufacturer;	MPH Industries	Date Certified:	05/01/2018
Model:	Python	Agency:	PCSD
Serial Number:	PYT380000438	•	
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds all mai	ufacturer's specificati	ons.
	TUNING FORK		
Raymond Fleming , do certify County of Pierce, that all applicable te	under the penalty of perjury, u sts and measurements were mad		
Tuning Fork Serial No.:	226731	Date Certified:	05/01/2018
Oscillation (Cycles per Second):	2519	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to	+140F no correction is	required.
	TUNING FORE	<u> </u>	
, <u>Raymond Fleming</u> , <u>d</u> o certify County of Pierce, that all applicable te	under the penalty of perjury, u sts and measurements were mad		
Tuning Fork Serial No.:	201215	Date Certified:	05/01/2018
Oscillation (Cycles per Second):	4684	Agency:	PCSD
Omers dies Europe au Dand	K		
Operating Frequency Band:	WANTE TO THE TOTAL PROPERTY OF THE TOTAL PRO		
MPH:	65		
MPH:	65 ween the temperature of -22F to	+140F no correction is	required.
МРН:	ween the temperature of -22F to	T. Market Mary Commission of the Commission of t	



SIGNED

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I,Jorge Marciano_, do certify uno of Pierce, that all applicable tests and			
Manufacturer:	MPH Industries	Date Certified:	07/29/2016
Model:	Python	Agency:	PCSD
Serial Number:	PYT380000570		
Operating Frequency Band:	K	·	
The aforesaid	radar meets and exceeds all man	ufacturer's specificati	ons.
	TUNING FORK		
I, <u>Jorge Marciano</u> , do cer County of Pierce, that all applicable te	tify under the penalty of perjury, sts and measurements were made		
Tuning Fork Serial No.:	277395	Date Certified:	07/29/2016
Oscillation (Cycles per Second):	2523	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to -	-140F no correction is	required.
	TUNING FORK		
I, <u>Jorge Marciano</u> , do ce County of Pierce, that all applicable te	rtify under the penalty of perjury sts and measurements were made		
Tuning Fork Serial No.:	226420	Date Certified:	07/29/2016
Oscillation (Cycles per Second):	4684	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	65		:
When operated bet	ween the temperature of -22F to -	-140F no correction is	required.
I certify under penalty of perjury, und	er the laws of the State of Washing	ton, that the above state	ments are true-and correct.
Dated and Signed at Tacoma, Was	hington 7/29/16	A STATE OF THE PARTY OF THE PAR	Parameter Contraction of the Con



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I, <u>Raymond Fleming</u> do certify under of Pierce, that all applicable tests and			
Manufacturer:	MPH Industries	Date Certified:	05/01/2018
Model:	Python	Agency:	PCSD
Serial Number:	PYT3800000786		
Operating Frequency Band:	K		·
The aforesaid	radar meets and exceeds all man	ufacturer's specificatio	ons.
	TUNING FORK		
I, <u>Raymond Fleming</u> , <u>do certify</u> County of Pierce, that all applicable to	y under the penalty of perjury, un sts and measurements were made		
Tuning Fork Serial No.:	279201	Date Certified:	05/01/2018
Oscillation (Cycles per Second):	2520	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	35		
When operated bet	ween the temperature of -22F to -		required.
I, Raymond Fleming , do certify County of Pierce, that all applicable to		nder the laws of the Sta	
Tuning Fork Serial No.:	965495	Date Certified:	05/01/2018
Oscillation (Cycles per Second):	4680	Agency:	PCSD
Operating Frequency Band:	K		,
мрн:	65		
When operated bet	ween the temperature of -22F to -	+140F no correction is	required.
I certify under penalty of perjury, und	ler the laws of the State of Washing	ton, that the above state	ements are true and correct.
Dated and Signed at Tacoma, Was	hington <u>05/61/2018</u>		
	DATED		SIGNED



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Manufacturer:	MPH Industries	Date Certified:	07/07/2017
Model:	Pýthon	Agency:	PCSD
Serial Number:	PYT380001395		
Operating Frequency Band:	K		
The aforesaid	radar meets and exceeds a	ll manufacturer's specificati	ons.
	TUNING FO	ORK	
Jorge Marciano , do cer ounty of Pierce, that all applicable te			
Tuning Fork Serial No.:	264310	Date Certified:	07/07/2017
Oscillation (Cycles per Second):	2520	Agency:	PCSD
Operating Frequency Band:	K	·	
мрн:	35	Action of the special state of	
	description of the second of t		
When operated bet	Mark the state of	2F to +140F no correction is	required.
Jorge Marciano, do ce	TUNING F	ORK. erjury, under the laws of the	State of Washington, in
ounty of Pierce, that all applicable te			
Tuning Fork Serial No.:	270706	Date Certified:	07/07/2017
Outilettes (Outles and Green N.	4677	Agency:	PCSD
Oscination (Cycles per Second):			
, ,	K	and the same of th	
Oscillation (Cycles per Second): Operating Frequency Band:: MPH:	K 65		
Operating Frequency Band:: MPH:	65	2F to +140F no correction is	required.



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Manufacturer:	MPH Industries	Date Certified:	06/15/2017
Model:	Python II	Agency:	PCSD
Serial Number:	PYT546001043		
Operating Frequency Band:	K	w.	
The aforesaid	radar meets and exceeds all m	anufacturer's specificatio	ns.
	TUNING FOR	К	
Raymond Fleming , do certify ounty of Pierce, that all applicable te			
Tuning Fork Serial No.:	261755	Date Certified:	06/15/2017
Oscillation (Cycles per Second):	2534	Agency:	PCSD
Operating Frequency Band:	K	_	
MPH:	35		
When operated bet	ween the temperature of -22F t	o +140F no correction is r	equired.
	TUNING FOR	ĸ	
Raymond Fleming , do certify ounty of Pierce, that all applicable te	y under the penalty of perjury, sts and measurements were ma		
Tuning Fork Serial No.:	262613	Date Certified:	06/15/2017
Oscillation (Cycles per Second):	4726	Agency:	PCSD
	K		
Operating Frequency Band:			
Operating Frequency Band: MPH:	65		
мрн:		o +140F no correction is r	equired.



1422 112<sup>th</sup> Street East Tacoma, Washington 98445 (253) 798-7147

#### **CERTIFICATE OF CALIBRATION & ACCURACY**

I, Raymond Floming , do certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Traffic Radar equipment: Manufacturer: **MPH** Industries Date Certified: 04/24/2017 Model: Python Agency: **PCSD** Serial Number: PYT546004027 **Operating Frequency Band:** K The aforesaid radar meets and exceeds all manufacturer's specifications. TUNING FORK I, Raymond Fleming \_\_\_, do certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks: Tuning Fork Serial No.: 270866 Date Certified: 04/24/2017 Oscillation (Cycles per Second): 2522 **PCSD** Agency: **Operating Frequency Band:** K MPH: 35 When operated between the temperature of -22F to +140F no correction is required. TUNING FORK , do certify under the penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that all applicable tests and measurements were made on the following Doppler Radar Tuning Forks: Tuning Fork Serial No.: 278954 Date Certified: 04/24/2017 Oscillation (Cycles per Second): 4682 Agency: PCSD Operating Frequency Band: K MPH: 65 When operated between the temperature of -22F to +140F no correction is required. I certify under penalty of perjury, under the laws of the State of Washington, that the above statements are true and correct.

Dated and Signed at Tacoma, Washington 04/24/2017 Muy F



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Manufacturer:	MPH Industries	Date Certified:	01/22/2020
Model:	Python	Agency:	PCSD
Serial Number:	PYT546005167		
Operating Frequency Band:	K	NAME OF THE OWNER OWNER OF THE OWNER	
The aforesaid	radar meets and exceeds al	l manufacturer's specificati	ons.
	TUNING FO	DRK	
Raymond Fleming , do certify ounty of Pierce, that all applicable te			
Tuning Fork Serial No.:	289043	Date Certified:	01/22/2020
Oscillation (Cycles per Second):	2520	Agency:	PCSD
Operating Frequency Band:	K	150000000000000000000000000000000000000	**************************************
мрн:	35		
When operated bet	ween the temperature of -22	EF to +140F no correction is	required.
•	TUNING F	ORK	
Raymond Fleming do certify ounty of Pierce, that all applicable te			
Tuning Fork Serial No.:	072002	Date Certified:	01/22/2020
Oscillation (Cycles per Second):	4683	Agency:	PCSD
Operating Frequency Band:	K		
мрн:	65		
	wann tha tamnayatuwa af 2	2F to +140F no correction is	required.
When operated bet	ween the temperature or *22		



## CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION OF ELECTRONIC SPEED MEASURING DEVICES AND LASER SPEED MEASURING DEVICES

I, Raymond Fleming, do certify under penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that the following is true and correct:

I am employed with Pierce County as a Communications Systems Technician, Speed Measuring Device (SMD) Specialist, and assigned as the custodian of the SMD records. I have been employed in this capacity since August 29th 2016. Part of my duties include the maintenance and repair of all types of electronic radar and laser speed measuring devices (SMD's) used by the Pierce County Sheriff's Department.

The Pierce County Sheriff's Department currently uses the following SMD's:

SMD TYPE:	MODEL:	MANUFACTURE:
Radar	Bee III	MPH Industries
Radar	Bee-36	MPH Industries
Radar	Enforcer	MPH Industries
Radar	K-15	MPH Industries
Radar	K-15 II	MPH Industries
Radar	Speedgun	MPH Industries
Radar	Speedgun Pro	MPH Industries
Radar	TS-3	MPH Industries
Radar	Vindicator	MPH Industries
Radar	Python	MPH Industries
Radar	Python II	MPH Industries
Radar	Python III	MPH Industries
Radar	Z-15	MPH Industries
Radar	Z-25	MPH Industries
Radar	Z-35	MPH Industries
Radar	Genesis II	Decatur Electronics
Radar	Genesis II Directional	Decatur Electronics
Radar	Genesis II Select	Decatur Electronics
Radar	Genesis GHS	Decatur Electronics
Radar	Genesis VPD	Decatur Electronics
Radar	Genesis S1-2	Decatur Electronics
Radar	Genesis S1-3	Decatur Electronics
Radar	Falcon	Kustom Signals
Radar	Falcon HR	Kustom Signals
Radar	HR-12	Kustom Signals
Radar	Golden Eagle	Kustom Signals
Radar	Golden Eagle II	Kustom Signals
Radar	Talon II	Kustom Signals
Radar	Raptor RP-1	Kustom Signals
Laser	Pro-Lite	Kustom Signals
Laser	ProLaser II	Kustom Signals
Laser	ProLaser III	Kustom Signals
Laser	TruSpeed	Laser Technology Inc
Radar	Stalker DSR-2X	Applied Concepts
Radar	Stalker ATR	Applied Concepts
Radar	Stalker II MDR	Applied Concepts
Radar	Stalker II SDR	Applied Concepts
Radar	·   Stalker Dual SL	Applied Concepts
Radar	Stalker Patrol	Applied Concepts



I have the following qualifications with respect to the above stated SMD's:

I have twenty-five years combined military and civilian experience as a communications specialist in the maintenance and repair of electronics equipment and three years with Pierce County repairing, maintaining, and certifying SMD's for cities throughout the state. I received training from the following manufacturer as well as from the Pierce County Lead Systems Technician. On March 22, 2017 I successfully completed the MPH Industries course in operation and maintenance of Doppler traffic radar and traffic laser. On April 4th, 2019 I successfully completed the Laser Technology Inc, course for factory service training on the LTI Tru-Speed series laser radar.

The Pierce County Radio Communications Division maintains manuals for all the above listed SMD's. I am personally familiar with those manuals and know how each of the SMD's are designed and operated. From March 22, 2017 to June 18, 2020. I performed a majority of the SMD testing. The units are evaluated and certified to meet or exceed existing performance standards.

The Pierce County Radio Communications Division maintains a testing and certification program for the Pierce County Sheriff's Department wherein each SMD is inspected and checked every five years by the following means:

Radar SMD's utilize the Doppler effect to measure speed. Testing consists of using a precision signal generator to inject a signal into the SMD to simulate speeds of 35mph and 65mph for the stationary/moving radars. It also includes injection of a signal to simulate 35mph for stationary radar only. The signal must cause the SMD to display the exact speed, ± 1 mile per hour, in order to be certified for accuracy. I then measure the frequency of the tuning fork(s) assigned to each SMD to insure that they are within ± 5Hz tolerance. I issue a certificate of accuracy for both the SMD and the tuning fork(s). The original certificates are issued to the Lakewood District Court. I also retain a copy for my records along with the maintenance and service records for each SMD serviced.

Laser SMD's measure speed based on the velocity of light and a precision time base reference. Testing consists of three accuracy certification checks (1) Internal Self Test (2) Pulse Check to include; pulse width, power output, pulse repetition rate, and double pulse (3) and a Distance Check to include; sight alignment, vertical, and horizontal beam width ≥ 200 feet. The checks insure that the SMD is within tolerance and functioning properly. I then issue a certificate of accuracy for each SMD. The original certificates are issued to the Pierce County Sheriff's Department who in turn issues a copy to the Court. I also retain a copy for my records along with the maintenance and service records for each SMD serviced.

All radar SMD's operated by the Pierce County Sheriff's Department directly measure by digital message from the Doppler signal. They do not reconstitute the Doppler signal in any way, including the use of devices such as a phase lock loop (PLL), before the speed is measured.

Based upon my education, training and experience, and my knowledge of the radar SMD's listed above, it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will give accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator or, in the case of laser SMD's, each of these pieces of equipment is so designed and constructed as to accurately employ measurement techniques based on the velocity of light in such a manner that it will give accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.

		4 - 4	



I certify under the penalty of perjury, under the laws of the State of Washington, that the foregoing is true and correct.

Raymond Fleming

Communications Systems Technician/ Speed Measuring Device Specialist

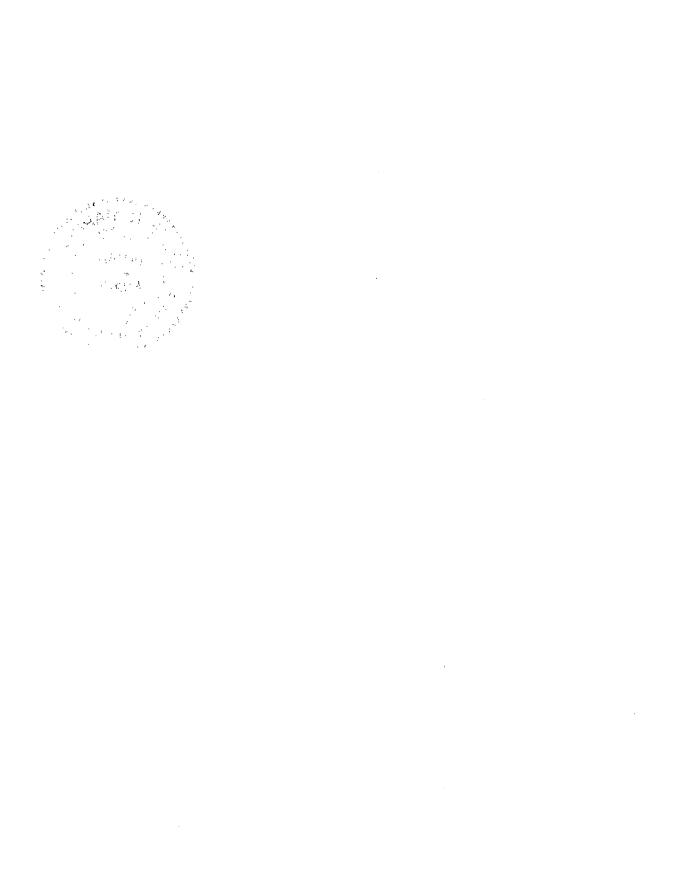
Signed and dated at Tacoma, Washington\_

SUBSCRIBED AND SWORN TO BEFORE ME THIS 25 TH DAY OF

June , 2020.

Notary Public in and for the State of Washington, County of Pierce.

Commission expires 04-19-2021





## CERTIFICATION CONCERNING DESIGN AND CONSTRUCTION OF ELECTRONIC SPEED MEASURING DEVICES AND LASER SPEED MEASURING DEVICES

OEC 16 2014

I, Jorge Marciano, do certify under penalty of perjury, under the laws of the State of Washington, in the County of Pierce, that the following is true and correct:

I am employed with Pierce County as a Communications Systems Technician, Speed Measuring Device (SMD) Specialist, and assigned as the custodian of the SMD records. I have been employed in this capacity since Sep 10, 2007. Part of my duties include the maintenance and repair of all types of electronic radar and laser speed measuring devices (SMD's) used by the Pierce County Sheriff's Department.

The Pierce County Sheriff's Department currently uses the following SMD's:

SMD TYPE:	MODEL:	SERIAL #:	MANUFACTURE:
Radar	TS-3	690	MPH Industries
Radar	Kustom Falcon	FF10931	Kustom Signals
Radar	Kustom Falcon	FF18264	Kustom Signals
Radar	MPH Z-35	HHS570000154	MPH Industries
Radar	MPH Z-35	HHS570000217	MPH Industries
Radar	MPH K-15	K15115000776	MPH Industries
Radar	MPH K-15	K15115000783	MPH Industries
Radar	MPH Python	PYT380000218	MPH Industries
Radar	MPH Python	PYT380000219	MPH Industries
Radar	MPH Python	PYT380000438	MPH Industries
Radar	MPH Python	PYT380000570	MPH Industries
Radar	MPH Python	PYT380000786	MPH Industries
Radar	MPH Python	PYT380001395	MPH Industries
Radar	MPH Python	PYT380001397	MPH Industries
Radar	MPH Python	PYT380001682	MPH Industries
Radar	MPH Python	PYT546000410	MPH Industries
Radar	MPH Python	PYT546000465	MPH Industries
Radar	MPH Python	PYT546000516	MPH Industries
Radar	MPH Python	PYT546001043	MPH Industries
Radar	MPH Python	PYT546001345	MPH Industries
Radar	MPH Python	PYT546001944	MPH Industries
Radar	MPH Python	PYT546002565	MPH Industries
Radar	MPH Python	PYT546002877	MPH Industries
Radar	MPH Python	PYT546002959	MPH Industries
Radar	MPH Python	PYT546003357	MPH Industries
Radar	MPH Python	PYT546004027	MPH Industries
Radar	MPH Python	PYT546004259	MPH Industries
Radar	MPH Python	PYT546005167	MPH Industries
Radar	MPH Python	PYT546006424	MPH Industries
Radar	MPH Python	PYT846001839	MPH Industries
Laser	Kustom ProLaser III	PL17799	Kustom Signals
Laser	Kustom ProLaser III	PL17806	Kustom Signals



I have the following qualifications with respect to the above stated SMD's:

I have seven years military experience as a communications specialist in the maintenance and repair of electronics equipment and seven years with Pierce County repairing, maintaining, and certifying SMD's for counties and cities throughout the state. I received training from the following manufacturers as well as from the Pierce County Engineer. On Dec 13, 2007, I successfully completed the Decatur Electronics course in repair and service of Doppler traffic radar and on Mar 13, 2008, I successfully completed the MPH Industries course in repair and service of Doppler traffic radar. Further, on Jan 14, 2009, I successfully completed the requirements for Kustom Signals certification in operation and maintenance of Doppler traffic radar and traffic laser and on Sep 3, 2009, I successfully completed the requirements for Applied Concepts certification in operation and maintenance of Doppler traffic radar and traffic laser.

The Pierce County Radio Communications Division maintains manuals for all of the above listed SMD's. I am personally familiar with those manuals and know how each of the SMD's are designed and operated. From Dec 17, 2007 to Aug 16, 2013, I performed all of the SMD testing. The units are evaluated and certified to meet or exceed existing performance standards.

The Pierce County Radio Communications Division maintains a testing and certification program for the Pierce County Sheriff's Department wherein each SMD is inspected and checked every 24 months by the following means:

Radar SMD's utilize the Doppler effect to measure speed. Testing consists of using a precision signal generator to inject a signal into the SMD to simulate speeds of 35mph and 65mph for the stationary/moving radars. It also includes injection of a signal to simulate 35mph for stationary radar only. The signal must cause the SMD to display the exact speed,  $\pm 1$  mile per hour, in order to be certified for accuracy. I then measure the frequency of the tuning fork(s) assigned to each SMD to insure that they are within  $\pm$  5Hz tolerance. I issue a certificate of accuracy for both the SMD and the tuning fork(s). The original certificates are issued to the Pierce County District Court. I also retain a copy for my records along with the maintenance and service records for each SMD serviced.

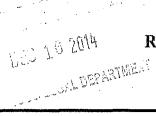
Laser SMD's measure speed based on the velocity of light and a precision time base reference. Testing consists of four accuracy certification checks (1) Internal Self Test (2) Pulse Check to include; pulse width, power output, pulse repetition rate, and double pulse (3) Fixed Distance Check to include; sight alignment, vertical, and horizontal beam width ≥ 200 feet (4) and Internal Oscillator Check. The checks insure that the SMD is within tolerance and functioning properly. I then issue a certificate of accuracy for each SMD. The original certificates are issued to the Pierce County Sheriff's Department who in turn issues a copy to the Court. I also retain a copy for my records along with the maintenance and service records for each SMD serviced.

All radar SMD's operated by the Pierce County Sheriff's Department directly measure by digital message from the Doppler signal. They do not reconstitute the Doppler signal in any way, including the use of devices such as a phase lock loop (PLL), before the speed is measured.

Based upon my education, training and experience, and my knowledge of the SMD's listed above, it is my opinion that each of these electronic pieces of equipment is so designed and constructed as to accurately employ the Doppler effect in such a manner that it will give accurate measurements of the speed of motor vehicles when properly calibrated and operated by a trained operator.







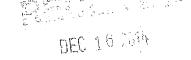
1422 112th Street East Tacoma, Washington 98445

(253) 789-7147

#### **CERTIFICATE OF ACCURACY**

Model:	-		stom Signa	45	]	Date C	ertified:			11-De	€C-14	
		F	ProLaser III			Agency	1	Pi	erce Co	unty Si	eriff D	epartmen:
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Controls Operation RFI Indicator .  Pulse Characteric Pulse Frequency ( Pulse Width .  Double Pulse .  Geam Characteric controls of the control of the cont	istics Tes		Expected Expected	j: 199.98 to l: <=100	200 nS	Tested	; 22,50 nS		N/A N/A N/A N/A	[x]	Pass Pass Pass Pass	[]F
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1422 112<sup>th</sup> Street East Tacoma, Washington 98445

(253) 789-7147

#### CERTIFICATE OF ACCURACY

Manufacturer:				*****	ımmary	······································	VI
		Κu	stom Signal	8	Date Certified:	<del></del>	11-Dec-14
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Double Pulse  Seam Characteristi Optical Power  Wavelength	*	sts	Expected	: <=200 mW : NA	Tested: 168.62 uV	/ [ ] N/A [x] N/A	[X] Pass [ ] Fa